VIDE-V30201

JVC

SERVICE MANUAL

DVAVIDEOLOASSEERIEREOORDEEL

BR-DV600U/BR-DV600E

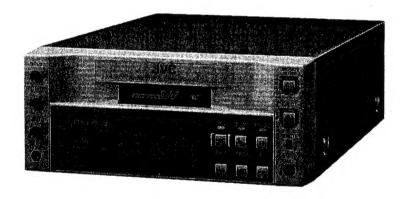




TABLE OF CONTENTS

Section Title	Page	Section	little	rage
Important Safety Precautions		2.2.1	Assembly mode	2-2
			Mechanism modes	
INSTRUCTIONS			CHANISM TIMING CHART NTENANCE AND INSPECTION OF MAJOR	
SECTION 1 SERVICE CAUTIONS AND DISASSEMBLY			Layout of Major Parts	
1.1 LAYOUTS OF MAJOR BOARDS		2.4.1	Maintenance and inspection list	2-6
1.2 REMOVING THE MAJOR PARTS		243	Cleaning	2-7
1.2.1 Disassembly Flowchart		2.4.4	Oiling and Greasing	2-7
1.2.2 Replacing the Fuses	1-2	2.5 PEF	IODICAL MAINTENANCE	2-8
1.2.3 Removing the Top Cover	1-2	2.6 DIS	ASSEMBLY/ASSEMBLY OF MECHANISM A	SSEMBLY 2-9
1.2.4 Removing the Front Panel assembly	1-2		Assembly/Disassembly	
1.2.5 Removing the Bottom Cover			Screws and Washers Used in Mechanism A	
1.2.6 Removing the DVC Unit	1-3		Disassembly/Assembly	2-9
1.3 DIAGNOSIS OF MAJOR BOARDS	1-3	2.6.3	Mechanism Assembly Disassembly Procedu	ire Table 2-10
1.3.1 Adjustment & Diagnosis of the DV MAIN Board and Mechanism	1-3		Mechanism disassembly/assembly procedu	
1.3.2 Diagnosing the Video I/O Board			LACEMENT OF MAJOR PARTS IFIRMATION AND ADJUSTMENT OF MECHANIS	
1.3.3 Diagnosing the AUD S/S Board			CHANISM DISASSEMBLY/ASSEMBLY SHEE	
1.3.5 Diagnosing the FRONT Board	1-5		GASSEMBLY PROCEDURE LIST	
1.3.6 Diagnosing the FRONT Sub Board		2.10 DR	RQUE ADJUSTMENTS	2-31
1.3.7 Diagnosing the REAR 1 Board		2.12 CC	MPATIBILITY ADJUSTMENT	2-32
1.4 DISASSEMBLY OF THE DVC UNIT	1-6		Compatibility Adjustment Flow Chart	
1.4.1 Disassembling the Front Part of the DVC Unit	1-6	2.12.2	Before Adjustments	2-33
1.4.2 Disassembling the Rear Part of the DVC Unit	1-6	2.12.3	Adjustment Setup	2-33
1.4.3 Removing the Cassette Housing Assembly	1-7	2.12.4	Tape Transport Restriction	2-34
1.4.4 Removing the Mechanism Assembly		2.12.5	Compatibility Adjustment	2-35
1.5 TAPE EJECTION IN CASE OF EMERGENCY	1-8			
1.5.1 Tape Ejection Using Forced Eject Mode				
(Short-circuiting of Internal TP)			ON 3 ELECTRICAL ADJUSTMENTS	
1.5.2 Tape Ejection without Using the Forced Eject Mode			CAUTIONS	
1.5.3 Manual Tape Ejection			Required tools and measuring instruments for ac Alignment tapes	
1.6.1 Displaying the Menu Switches		3.1.2	Standard setup for adjustment	3-1
1.6.2 Configuration of Service Menu (Monitor Out Display)	1-10	3.1.3	Signals required for adjusting video system	3-2
1.6.3 Contents of the User and Service Menu		3 1.5	Adjustment Using Different Signal Types	3-3
1.6.4 HOUR METER		3.2 AD	JUSTMENTS ON THE VIDEO I/O BOARD	3-5
1.6.5 ROM VERSION			Audio Adjustments	
1.6.6 ERROR HISTORY	1-14	3.2.2	Video Adjustments	3-5
1.6.7 MECHANISM SW INFO			JUSTMENTS ON THE AUD S/S BOARD	
1.6.8 OTHERS			ADJUSTMENTS (USING ADJUSTMENT SO	
1.7 WARNING CODES			Precautions	
1.7.1 Warning Errors			Equipment Required for Adjustments	
1.7.2 Invalid Errors		3.4.3	Setup for PC Adjustment	3-1
1.8 EEPROMs 1.9 CAUTION FOR REPLACING THE DV MAIN BOARD	1-10	3.4.4	Installing the Adjustment Software Operating the Adjustment Software	2-12
AND AUD S/S BOARD	1-18	3.4.5	Common Operations for Adjustments	3-13
1.9.1 DV MAIN Board		3.4.0	Servo Circuit Adjustment	3-14
1,9.2 AUD S/S Board		3.4.8	RF Circuit Adjustments	3-15
1.10 BACKUP OF TIME DATA		3.4.9	Video Circuit Adjustments	3-17
1.10.1 Backup Circuit		3.4.10	Audio Circuit Adjustments	3-22
1.10.2 Compulsory resetting			Error Rate Monitoring	
1.11 SET UP SW (U-MODEL ONLY)	1-19	3.4.12	ROM Tools	3-23
1.12 EDITING SYSTEM USING THE BR-DV600	1-20	3.4.13	3 IEEE1394 ID Setting	3-24
1.12.1 Control with JVC bus			Active Head Cleaner Adjustment Mode	
1.12.2 RS-422A (9P) controller		3.4.1	The limitations when the adjustment softwave	ıs µn 3-24
1.13 ANALYSIS OF BLOCK NOISE (SYMPTOMS: POOR VIDE				
ABSENCE OF AUDIO)				
1.13.1 Analysis Flow Chart			ON 4 CHARTS AND DIAGRAMS	
1.13.2 RF Envelope Check	1-23		DEX TO PAGES OF MAIN BOARDS AND	
			CUIT BOARD LOCATION	
SECTION 2 MECHANICAL ADJUSTMENTS			Circuit board location	
2.1 BEFORE ADJUSTMENTS	2-1		DC CIRCUIT BOARD	
2.1.1 Precautions			/.REG SCHEMATIC DIAGRAM 14	
2.1.2 Measuring instruments required for adjustments	2-1		DC SCHEMATIC DIAGRAM 12	
2.1.3 Equipment required for adjustments	2-1		/.REG CIRCUIT BOARD	
2.2 BASICS OF MECHANISM DISASSAMBLY/ASSEMBLY				

Section	Title	Page
4.7 VIDEO I/O SCH	MATIC DIAGRAM 115 (1/4)	4-10
· ·	MATIC DIAGRAM 15 (2/4)	
	MATIC DIAGRAM 15 (3/4) MATIC DIAGRAM 16 (4/4)	
	UIT BOARD	
4.9 AUDIO S/S SCH	EMATIC DIAGRAM 13 (1/3)	4-16
	EMATIC DIAGRAM 13 (2/3)	
	EMATIC DIAGRAM 13 (3/3)	
4.10 AUDIO S/S CIR	CUIT BOARD	4-19 / ₂ -21
4.12 FRONT SUB SO	CHEMATIC DIAGRAM 116	4-22
	SUB CIRCUIT BOARD	
	ATIC DIAGRAM 🛈 6	
	T BOARD PTION : SA-K46), REAR3 📵 📳,	4-25
	AR5 🗓 SCHEMATIC DIAGRAM	4-26
	N : SA-K46),REAR3, REAR4, REAR5	. 20
CIRCUIT BOAR	D	4-27
	HEMATIC DAIGRAM 111	
	TRANSMIT CIRCUIT BOARDRALL WIRING DIAGRAM	
	MATIC DIAGRAM (1)(1/7)	
 DV MAIN SCHE 	MATIC DIAGRAM 10 (2/7)	4-32
	MATIC DIAGRAM 🗓 🗓 (3/7)	
	MATIC DIAGRAM 🔟 (4/7) MATIC DIAGRAM 🔟 (5/7)	
	MATIC DIAGRAM 110 (6/7)	
DV MAIN SCHE	MATIC DIAGRAM 10 (7/7)	4-37
4.22 DV MAIN CIRC	UIT BOARD	
	L UP TO No.XXXX 0969(U MODEL),	
4 22 2 EOR SERIA	E MODEL) L No.XXXX 0970(U MODEL),	4-38
XXXX0985(E MODEL) AND AFTER	4-42
4.23 PR & MDA SCH	HEMATIC DIAGRAM 101 (1/2)	4-46
	EMATIC DIAGRAM 01 (2/2)	
	CUIT BOARDIT BOARD	
	ATIC DIAGRAM @[2]	
4.27 DCDC, ROM, C	ONN. CIRCUIT BOARD	4-51
	K DIAGRAM	
4.29 FRONT BLOCK	DIAGRAM	4-53
	CK DÍAGRAMGRAM (1/2)	
	GRAM (2/2)	
	DIAGRAM	
	IAGRAM	
4.34 IC BLOCK DIAG	GRAM	4-59
SECTION 5 EXPL	ODED VIEW AND PARTS LIST	
5.1 CABINET & CHA	ASSIS ASSEMBLY M2	
5.2 DVC UNIT ASSE	MBLY M3	5-4
5.3 MECHANISM A	SSEMBLY M 4	5-6
SECTION 6 ELECT	TRICAL PARTS LIST	
	ARD ASSEMBLY PARTS LIST 01	6-2
	ASSEMBLY PARTS LIST 02 (DVC unit)	
	SSEMBLY PARTS LIST 03	
	ASSEMBLY PARTS LIST 1014	
	ASSEMBLY PARTS LIST 05 ASSEMBLY PARTS LIST 06	
	ASSEMBLY PARTS LIST 1018	
6.8 REAR4 BOARD	ASSEMBLY PARTS LIST 09	6-7
	D ASSEMBLY PARTS LIST 10	
	ARD ASSEMBLY PARTS LIST 11	
	ASSEMBLY PARTS LIST (MAIN unit) ARD ASSEMBLY PARTS LIST 113	

Section	Title	Page
	O ASSEMBLY PARTS LIST 14	
6.14 VIDEO I/O BOA	RD ASSEMBLY PARTS LIST 115	6-20
6.15 FRONT-SUB BO	ARD ASSEMBLY PARTS LIST 16	6-30
6.16 REAR5 BOARD	ASSEMBLY PARTS LIST 10	6-30
6.17 TR BOARD ASS	EMBLY PARTS LIST 18	6-30
6.18 TRANSMIT BOA	ARD ASSEMBLY PARTS LIST 19	6-30
SECTION 7 PACKI	NG	
7 1 DACKING ACCEN	ADIV	7 1

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- 2. Parts identified by the A symbol and shaded () parts are critical for safety.

Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- Fuse replacement caution notice.
 Caution for continued protection against fire hazard.
 Replace only with same type and rated fuse(s) as specified.
- 4. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape 2) PVC tubing
- 3) Spacers
- Barrier

4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of

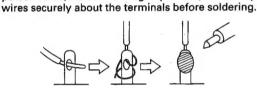


Fig.1

- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

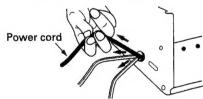


Fig.2

- 10. Also check areas surrounding repaired locations.
- 11. Products using cathode ray tubes (CRTs) In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

- 1) Connector part number: E03830-001
- Required tool: Connector crimping tool of the proper type which will not damage insulated parts.
- 3) Replacement procedure
- Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).



cut close to connector

Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.



Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

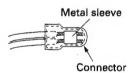


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

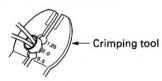


Fig.6

(5) Check the four points noted in Fig.7.

Not easily pulled free Crimped at approx. center of metal sleeve

Wire insulation recessed more than 4 mm

Fig.7

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

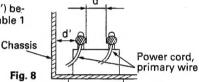
Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.



Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

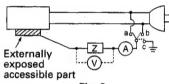


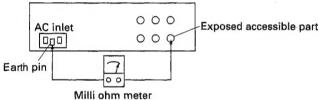
Fig. 9

Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.



Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

Fig. 10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d*)
100 V	1	D >4 MO/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	_	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≥ 4 mm d' ≥ 8 mm (Power cord) d' ≥ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	ο—	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V	Europe & Australia	ο—- ∕ √√,—-ο 2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
220 to 240 V	Europe & Australia	ο—-\\\\	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

VIDEO CASSETTE RECORDER

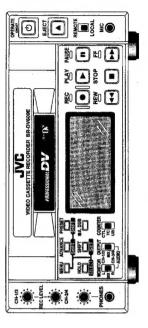
BR-DV600U INSTRUCTIONS

VIDEO CASSETTE RECORDER

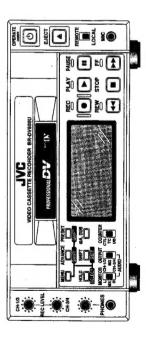
BR-DV600E

INSTRUCTIONS

Mini



Mini



Before operating this unit, please read the instructions carefully to ensure the best possible performance.

For Customer Use:
Fine the Serial No. which is Fine the Serial No. which is formed on the bottom of cabinet. Retain this information for future reference. Is made from 100% Model No. BR-DV600U recycled paper.

Serial No.

SL96179

Thank you for purchasing this JVC product.
Before operating this unit, please read
the instructions carefully to ensure the
best possible performance.

This instruction book is made from 100% recycled paper.

IMPORTANT SAFEGUARDS

- 1. Read all of these instructions for later use.
 2. Save these instructions for later use.
 3. All warnings on the product and in the operating instructions should be adhered to.
 4. Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
 - Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.Do not use this appliance near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - PORTABLE CART WARP Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mountng kit approved by the manufacturer.
 - An appliance and cart combination should be moved with care. Quick stops, excessive force,
- must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, and uneven surfaces may cause the appliance and cart combination to overtum. Slots and openings in the cabinet and the back or bottom are provided for ventitation, and to insure reliable operation of the appliance and to protect it from overheating, these openings
- rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance 6
 - designed to operate from battery power, refer to the operating instructions.

 This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the ground-6
- For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. ÷
 - Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it. ķ
 - Follow all warnings and instructions marked on the appliance.
- Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage 5, 4, 7,
 - points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance. 16. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following
- When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the appliance.
- the appliance has been exposed to rain or water.
- If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation. If the appliance has been dropped or the cabinet has been damaged
 - نب ته
- 18. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, When the appliance exhibits a distinct change in performance -- this indicates a need for service.
- 19. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

Supplement

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

residential area (in houses)

commercial and light industry; e.g. office or theatres

This apparatus is designed for rack mounting or is used close to other apparatus.

In order to keep the best performance and furthermore for electromagnetic compatibility we recommend to use cables not exceeding the following lengths:

		THE PARTY OF THE P
LINE IN	Coaxial Cable	10 meters
LINE OUT	Coaxial Cable	10 meters
VIDEO MONITOR OUT	Coaxial Cable	10 meters
COMPONENT Y IN	Coaxial Cable	10 meters
R-Y IN	Coaxial Cable	10 meters
B-Y IN	Coaxial Cable	10 meters
COMPONENT Y OUT	Coaxial Cable	10 meters
R-Y OUT	Coaxial Cable	10 meters
B-Y OUT	Coaxial Cable	10 meters
Y/C IN	Exclusive Cable	10 meters
Y/C OUT	Exclusive Cable	10 meters
SYNC IN	Coaxial Cable	10 meters
(TIMECODE IN)	Coaxial Cable	10 meters
TIMECODE OUT	Coaxial Cable	10 meters
AUDIO IN	Exclusive Cable	10 meters
AUDIO OUT	Exclusive Cable	10 meters
AUDIO MONITOR OUT	Exclusive Cable	10 meters
SERIAL REMOTE	Cable with RM-G30U	3 meters
REMOTE1(RS-422)	Exclusive Cable	10 meters
REMOTE2(JVC BUS)	Exclusive Cable	10 meters
DV IN/OUT	Exclusive Cable	5 meters
MIC	Cable with Microphone	5 meters
PHONES	Cable with Headphones	5 meters
AC IN	Exclusive Cable	5 meters
DC 12V	Exclusive Cable	5 motore

The inrush current of this apparatus is 8 amperes.

■ Where there are strong electromagnetic waves or magnetism, for example near a radio or TV transmitter, transformer, motor, etc., the picture and sound may be disturbed. In such a case, please keep the apparatus away from the sources of the disturbance.

■ When the RM-G800U remote controller is used, the counter, etc. may maifunction due to interference generated by the peripheral equipment. In this case, consult your nearest JVC dealer

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SAFETY PRECAUTIONS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (NE BACK),
NO USER-SERVICEALE, PARTS INSIDE,
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilatenal triangle, is intended to alert the user to the presence of unmaulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to



The exclamation point within an equilateral triangle is simportant inherded to adert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

TO REDUCE THE RISK OF FIRE ON ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 120 V AC only.

CAUTION:

To prevent electric shocks and fire hazards, DO NOT use any other power source.

The rating plate (serial number plate) is on the bottom of the unit.

This equipment has been lested and found to comply with the finish for a Class B digital device, bursants to Bart 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential triatalistion. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in encountries with the instructions, may cause harmful interference with reference in a particular interference are to radio communications. However, there is no guarantee that interference will not occur, in a particular installation. If this equipment does cause harmful interference to radio or television creeption, which can be determined by furning the equipment off and on, the user is encouraged to by turning the equipment off and on, the user is encouraged to by too creek the interference by one or more of the following measures:

- Recrient or relocate the receiving antenna.
 Increase the separation between the equipment and
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 Consult the dealer or an experienced radio/TV technician for

CAUTION
CHANGES OR MODIFICATIONS NOT APPROVED BY JVC
COULD VOID USER'S AUTHORITY TO OPERATE THE
EQUIPMENT.

INTERFERENCE THAT MAY CAUSE UNDESIRED OPERA-THIS DEVICE COMPLIES WITH PART 15 OF THE FCC INLES, OPERATON IS SUBJECT TO THE POLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT GAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST

ATTENTION RISOUE D'ELECTROCUTION NE PAS GUVRIR

ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCUTION

A REGLER PAR L'UTILISATEUR. BE REFERER A UN AGENT QUALIFIE EN CAS DE PROBLEME.



Le symbole de l'éclair à l'intérieur d'un triangle équilaiteral est destiné à alenter l'unitisateur sur la présence d'une "lension dangereuse" non isolée dans le boîtler du produit. Cette lension est suffisante pour provoquer l'électrocution de personnes.



Le point d'oxdamation à l'intérieur d'un triangle équilation est destiné à alenter unitisseur sur la présence d'opérations d'entrellen importantes au sujet desquelles d'es enraèglements se trouvent dents le manuel d'instructions.

Ces symboles ne sont utilisés qu'aux Etats-Unis

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Ce magnétoscope ne doit être utilisé que sur du courant alternatif en 120 V.

ATTENTION:

d'électrocution, ne pas utiliser d'autres sources d'alimentation électrique. Afin d'éviter tout resque d'incendie ou

La plaque d'identification (numéro de série) se trouve sur le panneau arrière de l'appareil.

WARNING:

The battery used in the BR-DV600U must be replaced by a JVC authorized service dealer only.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioelectriques applicables aux appreils inmériques de montre de constituent de montre de constituent de processe de constituent de constituent

POWER SYSTEM
Connection to the mains supply
This unit operates on voltage of 220 to 240 V AC, 50/

pin power outlet.

2. If any doubt exists regarding the earthing, consult a

1. Insert this plug only into effectively earthed three-

FOR YOUR SAFETY (Australia)

U | E SAFETY PRECAUTIONS

Extension cord, if used, must be three-core correctly

qualified electrician.

MPORTANT (In the United Kingdom)

Mains Supply (AC 230 V ∼) WARNING – THIS APPARATUS

MUST BE EARTHED

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

The wires in this mains lead are coloured in accordance with the following code; GREEN-and-YELLOW: EARTH

NEUTRAL

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured

BROWN:

markings identifying the terminals in your plug,

The rating plate and the safety caution are on the bottom of the unit. The OPERATE button does not completely shut off mains power from the unit, but switches operating current on and off.

WARNING

YELLOW. The wire which is coloured BLUE must be letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the

connected to the terminal which is marked with the

terminal which is marked with the letter L or

coloured RED.

must be connected to the terminal in the plug which is marked with the letter E or by the safety earth proceed as follows.
The wire which is coloured GREEN-AND-YELLOW

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast, or cable programme and in any literary, dramatic, musical or artistic work embodied COPYRIGHT @ 2000 VICTOR COMPANY OF JAPAN, LTD.

CONTENTS

1 INTRODUCTION

1-1 Major Features 5	
1-2 Maintenance5	
1-3 Precautions 6	
CONTROLS, CONNECTORS AND DISPLAYS	ω,
2-1 Front Panel 7	
2-2 Rear Panel	
2-3 On-Screen Display9	Onl
2-4 LCD Display 10	

3-1 Video system connections. 3 CONNECTIONS

4 MENU SWITCHES

4-1 Menu switch organization	1	18
4-1 Menu switch or 4-2 Menu switch de	ganization	stalls
4-1 Menu switch 4-2 Menu switch	6	8
4-1 Me	enu switch	nu switch
1-4 5-2	¥	ž
	1 -4	4-2

5 PREPARATION

Turn the power ON/OFF21	21
Loading/unloading a cassette21	21
Audio monitor selection21	2
Built-in clock setting	8

9

Loading/unloading a cassette	Recording preparation 23	Recording23	Audio dubbina
------------------------------	--------------------------	-------------	---------------

This unit is designed for use as a recorder/player. Insert editing is not possible.

This video cassette recorder uses the MiniDV format. Use only video cassettes bearing the MiniDV mark.

Please note that it may be unlawful to use any material recorded from TV broadcast programs or pre-recorded copyright, except in cases where this material is programs without the consent of the owner of recorded exclusively for personal use. JVC is not liable for compensation for loss or damage to recordings in the event this unit fails to record or play back correctly due to a malfunction of the unit itself or as a result of the use of a defective video cassette.

This unit is designed for professional use.

7 PLAYBACK

Playback preparation	25
Playback25	25
Repeat play	25

8 EXTERNAL TIMER-START FUNCTION

ı	2	S
	Playback2	Recording
ł		

TIME CODE

27	27	53	53	59
			:	
Display	Preset	Recording	Playback	Reference
	-			
	:			
.:	f	ging	ack	ence
sple	ese	000	ayb	efer
	ā	Œ	<u>a.</u>	ď

10 SUPER SCENE FINDER FUNCTION 30

11 RS-232C INTERFACE

11-1 Command tables 31	11-2 RS-232C specifications 32	11-3 RS-232C commands
Ξ	11-2	11-3

12 TROUBLESHOOTING

	4	42
	-	
1		
	i	:
	12-1 Warning indicators40	12-2 Other problems42
	indic	pplen
1	ing	r pro
	War	₽
	2-1	2-2
ı١	-	_

13 APPENDIX

13-1 Optional equipment.

14 SPECIFICATIONS

24

Reference

the following mechanism components.

Depending on the operation time, clean, inspect or replace

The hour meter can be displayed by selecting "HM: HOUR METER" on the menu switch setting screen. For details, refer to "Menu Switches" on page 17.

Hour meter indication

a long period of time.

Details for maintenance

Operating time	H009	1000H 1500H 2000H	1500H	2000H
Drum assembly (including the heads)	0	0	0	•
Head cleaner	₽	•	华	•
Tape guide roller	0	₽	な	•
Rotary encoder	ı	ᅒ	1	•
Belt and gear	₽	•	¢	•
Driving system parts	0	0	☆	•

Actual maintenance requirements will vary according to This table should be used for reference only. how the unit is used.

For servicing Service manual page 2-5 "2.4 MAIN TENANCE AND INSPECTION OF MAJOR PARTS".

NTRODUCTION

1-1 Major Features

- High-quality picture and sound thanks to digital technol-MiniDV format
- ogy

 DV in/out (IEEE 1394) connector enabling signals to be transferred to or from any device equipped with IEEE
 - Composite, Y/C and component inputs/outputs 1394 input/output
- Sync lock function for audio and video signals
 There is no tip link shift even during extended recording

 JVC bus and RS-422 serial remote interfaces
- RS-232C interface (optionally available)
- 2-way power supply system (AC 120 V, DC 12 V) (U MODEL)
 (AC 220 240 V, DC 12 V) (E MODEL)
 Audio dubbing function (32 kHz sampling rate)
 - Compact, lightweight design and playback (U MODEL) & SMPTE time code recording and playback (E MODEL) EBU time code recording and playback (E MODEL) & Sampling rate converter for 32 kHz, 12-bit or 48 kHz, 16-bit
 - digital audio

 External timer-start function

 External sync signal input connectors

Maintenance consultation

The video cassette recorder/player incorporates precision nance may lead to malfunctions. Regular maintenance is

1-2 Maintenance

components. Continued use of the VCR without mainte-

necessary to prevent malfunctions and maintain the

performance level required for professional use.

Consult your local JVC dealer for more information about maintenance scheduling and costs.

Head cleaning

and tune-ups are essential to keep your car running well over a long period, your VCR must be maintained

regularly to ensure optimum long-term performance.

Maintenance: Just as regular oil changes, brake checks,

nance schedule that will ensure optimum performance over

The information below will help you determine a mainte-

Recording and playback with clogged heads may result in block noise or sound interruption. In this case, clean the heads.

back function properly before using the unit for any imporrunning system. For cleaning procedures and handling After cleaning the heads, check that recording and play-Use an exclusive head cleaning tape to clean the tape precautions, refer to the instructions provided with the cleaning tape.

Cleaning

tant operations.

Use a soft cloth to clean the cabinet. Do not use benzene or thinner as these may mail or cloud the cabinet surface. To remove excessive dir, clean the unit with a mild detergent diluted with water, then wipe it with a dry cloth.

4 4. 6

1 INTRODUCTION

2 CONTROLS, CONNECTORS AND DISPLAYS

2-1 Front Panel

1-3 Precautions

Installation and storage

- Avoid using the unit in places subject to the following
- Extreme heat or cold Strong magnetic field

 - High humidity Dust and soil
 - Condensation Vibrations

Condensation

- Do not use this unit immediately after moving it from a cold place to a warm place or after switching on a heater in a cold room. This will cause water vapor to condense on the video head drum and tape guides and may damage the tape and the VCR.
 - When condensation occurs, the DEW indication appears on the tape counter display and the warning indication on the on-screen display. Leave the VCR in this state with the power on and wait until the warning message



- Do not block the ventilation openings.
- I Do not place anything heavy on the unit.

 I Do not put any foreign materials into the cassette
- Operate the unit in menizontal (flat) position only. Avoid violent shocks to the unit.

Transportation

Remove the cassette tape from the unit prior to transportation.

Energy saving

When not using the unit, turn the power off to avoid unnecessary power consumption.

Cassette tape

Only cassettes bearing the MiniDV mark can be used with this VCR.

S

3 VIDEO CASSETTE RE CO

MONTH COUNTY COU

- Cassette tapes cannot be loaded upside-down.
- damaged tapes. Doing so not only results in poorer performance, but may also shorten the service life of Rewind the tape to the beginning before storage.

 The number of times a tape can be reused is limited. If the tape is reused more than this, increased noise (such as dropouts) may result. Do not use dirty or the rotary heads.
- It is possible that some distortion may occur at the beginning and end of tapes. This can vary depending on the tape. However, for best results, do not use these sections of the tape for any important

Erasure prevention

MiniDV cassettes are provided with a safety slide on the side to prevent accidental erasure. Set it as required.



Move the slide to SAVE to prevent erasura.
 Move the slide to REC to allow recording.

Power supply

- supplies. For editing over an extended period, it is recommended that you use a stable AC power supply or DC power supply from an AC adapter. Using battery power is recommended only as a supplementary power This unit is provided with both AC and DC power source or for field use.
 - priority. Be sure to confirm which power supply is in use cally. When the AC power supply is switched to the DC The AC and DC power supplies are switched automatipower supply, the power turns off. When both power supplies are connected, the AC power supply has when plugging or unplugging the power supply.

PHONES] Jack

Connect a set of headphones (3.5 mm dia. mini-jack).

Use to adjust the volume level of the headphones PHONES control

Press this switch to turn this unit ON. Press it again to turn this unit OFF. When the power is OFF, the "oPE-oFF"

indication is shown.

[OPERATE] switch

[REC LEVEL] control

to flow into the VCR even when the power is turned off. When not using this unit, disconnect the power Keep in mind that a small amount of current continues

cable from the AC outlet. Remove the battery when

not in use to avoid excessive discharge.

connected to the PHONES jack.

Use to adjust the audio recording level.
CH-1/3: CH1 can be adjusted in normal recording.
CH3 recording level can be adjusted in audio

CH4 recording level can be adjusted in audio CH-2/4: CH2 can be adjusted in normal recording. dubbing.

Audio dubbing is possible when the No. 245 <SAM-PLING RATE> menu switch is set to "32K"

Setting buttons

Connect a microphone (3.5 mm dia., -67 dBs, 3 k\Omega).

[MIC] Jack

Use to control tape running.

Operation buttons Recording

PLAY: Playback PAUSE: Temporary stop

Rewinding

REW: Ë

Fast-forwarding

LCD Display

Use to switch between REMOTE and LOCAL.

B [REMOTE/LOCAL] switch Press to eject the cassette.

(EJECT] button

Use to set the menu switch, time code and user bits.

Press to set the menu switch setting mode. SHIFT +/-: Use to select the menu switch Use to enter the set value. Menu switch setting MENU

Press to set the time code, user bits or time Use to change the value. Time code and user bits setting SELECT: HOLD:

date setting mode. SHIT

Use to select the digit whose value is to be

Use to show various data including the tape counter and audio level meter. For details, refer to "LCD display" on page 10.

[COUNTER] switch

Use to switch the type of data displayed on the tape counter. When the No. 516 < DISPLAY SELECT> menu switch is set to "CLOCK", clock is shown for TC and

While pressing the [SHIFT] button, press this button to reset the set data to "0". ADVANCE: Use to change the value.

Use as a counter reset button when the [COUNTER] switch is set to "CTL". Use to enter the changed value and end setting. PRESET:

(A) [AUDIO DUB] button

Use to perform audio dubbing when the No. 245 <SAMPLING RATE> menu switch is set to "32K".

Cassette loading slot

Load and unload a cassette.

Use to select the audio channel to output from the rear panel's [AUDIO MONITOR OUT] connectors.

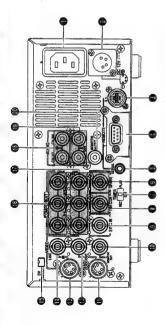
panel's [AUDIO OUT] connectors and the headphones. Use to select the audio channel to output from the rear

■ [AUDIO OUTPUT] switch

date is shown for UB.

■ [AUDIO MONITOR] switch

2-2 Rear Panel



Connect the provided power cable to supply AC 120 V (U MODEL), AC 220 - 240 V (E MODEL).

This unit can be activated automatically when power is supplied according to the setting of **@** [TIMER] switch. IS See "EXTERNAL TIMER-START FUNCTION" on

DC socket

Connect DC 12 V (XLR 4-pin).

This unit can be activated automatically when power is supplied according to the setting of (TIMER) switch.

I.P. See "EXTERNAL TIMER-START FUNCTION" on

[REMOTE] connector (JVC bus)
This unit can be controlled by the RM-G800 via this

[REMOTE] connector (RS-422 Serial Connector)

This unit can be controlled by an RS-422 controller. This can be changed to an RS-232C interface if required. For details, contact your local JVC service

[REMOTE] connector (SERIAL)

Connect a wired remote control such as the RM-G30 to control this unit.

This connector is empty and has no function. SPARE] connector

Use to select the timer operation. REC: Timer recording OFF: Timer function OFF TIMER] switch

PLAY: Timer playback page 26.

Use to output time code signals. (ITIME CODE OUT) connector

SYNC INI connector

C See "Reference sync signal" on page 11. Input reference sync signals.

(© [VIDEO MONITOR OUT] connector Connect a video monitor to check the output video or

on-screen display from this unit.

① [Y/C OUT] connector

(LINE OUT) connector

Outputs Y/C signals.

Outputs composite signals.

Receives Y/C signals. (P/C IN) connector

(1) [LINE IN] connector

Receives composite signals.

Outputs or receives IEEE 1394 standard digital signals. computer provided with the DV connector (i.LINK), etc. In addition to digital video and audio signals, control signals can be input or output to/from mersonal IDV IN/OUT] connector

Receive component signals.

The signal level is for Betacam specifications.

(COMPONENT OUT) connectors

The signal level is for Betacam specifications. Output component signals.

■ [AUDIO IN] connectors

Receives audio signals (analog).

Outputs audio signals (analog). The output audio channel can be selected with the

[AUDIO OUTPUT] (AUDIO OUT) connectors switch on the front panel.

C? See "Audio system connections" on page 12.

Connect to the audio input of a TV monitor or audio system. The audio channel to be monitored can be selected with the (§ [AUDIO MONITOR OUT] switch.

2 CONTROLS, CONNECTORS AND DISPLAYS

2-3 On-Screen Display

The on-screen display can be wewed on a monitor connected to the rear panel's [VIDEO MONITOR OUT] connector when the No. 500 <ON SCREEN's menu switch is set to "ON". Pressing the [MENU] button will bring up the menu switch display regardless of this setting.

Five types of indication are available,

Tape counter

Tape counter The type of data shown on the tape counter display is set with the [COUNTER] switch and menu switch. Mode: Time display Mode TÇR 12:00:00:00

Counter mode

TION SELECT> menu switch is set to	"MODE + TIME". In this case, the unit's	operation status can be checked on the	monitor screen.

Shown when the No. 504 <!NFORMA-

(COUNTER) switch (front panel)
No. 504 <INFORMATION SELECT>
No. 514 <TIME DISPLAY SELECT>

Related settings

Time display: The indications shown in the table on the left are available with the counter mode

Time code generator data User bits generator data

Time display contents Time code reader data User bits reader data

Counter mode Indication

TCR TCG NBH CBH UBG

CTL counter data

2. Menu switch

SERVO/SYSTEM VIDEO AUDIO

Wenu switch

Date

This indication is used to set the menu switch. Shown when the IMENUUD lubrin is pressed. Press it once again to restore the previous display. \$27 See "MENU SWITCHES" on page 17.

3. Hour meter

Shows the rotating head usage time. Select "HM: HOUR METER" on the menu switch's group

DRUM HOUR METER

Hour meter (HOUR METER)

4. Tape remaining time

Tape remaining time

Hour

Shows the tape remaining time. Shown when the No. 505 <REMAIN ENABLE> menu switch is set to "ON".

5. Warning message

TCR 12:00:00:00

farning code

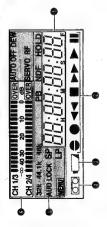
Automatically shown when an abnormality occurs.

(In case of condensation)

MARNING 0201 CONDENSATION ON DRUM

2 CONTROLS, CONNECTORS AND DISPLAYS

2-4 LCD Display



Counter display section

Three types of indications can be displayed in the counter display section.

MENÜ

Tape counter

Normally, the indication selected with the [COUN-TER] switch is shown. When the No. 516 < DISPLAY SELECT> menu switch is set to "CLOCK", the time

and date are shown.

C7 See "Built-in clock setting" on page 22.

in the menu switch setting mode, menu switch items are shown one at a time. (2) Menu switch

Menu switch No. Setting

Warning code

HOLD:

When this unit malfunctions, the nature of the CF See "Warning indicators" on page 40. problem is indicated by an error code.

In the Operate Off mode, "oPE-oFF" is shown.

0PE-0FF

Tape running indication

Shows the tape running conditions.

Audio dubbing mode
Recording mode
A Rewind mode
Stop mode
Past-forward mode
Play mode
II Pause mode
III Pause mode

- ▶▶ ► Fast-forward search mode Reverse search mode

Battery Indicator

voltage level drops below the specified value, this indicator blinks ("off" in normal operation), to show that When this unit is powered by a battery and the battery battery voltage is insufficient. This indicator will also blink when the Operate Off mode is engaged (since voltage output from the battery drops in this mode).

Cassette mark

This mark lights to show that a cassette is loaded.

Lights when a problem occurs in this 6 Indicators AUTO OFF:

Lights when the heads are clogged and Lights when a condensation occurs the signal level drops.

Lights when the unit's servo system

Lights when the video and audio has stabilized.

AUD LOCK: SERVO:

synchronized in the Play mode. Lights in the Recording mode and EE mode. Does not light when the sampling rate sampling clocks (at 48 kHz) are is 32 kHz or 44.1 kHz.

Lights in the menu switch setting mode 32K/44.1K/48K: Shows the frequency of the digital audio signal sampling rate. In the Record and EE modes, the frequency set with No. 24S. <SAMPLING RATE.

mode, the playback audio signal mode is shown. The 44.1K indication is menu switch is shown. In the Play Lights when playback signals are shown only in the Play mode.

Lights when the non-drop mode is set Lights when the drop mode is set for for time code. (U MODEL) time code. (U MODEL)

NDF ë

setting mode and in the date and time Lights in the time code or user bits Shows the recording or playback setting mode.

SPALP:

recording and playback is not possible with this unit. If you try to play back a lape recorded in the LP mode, the "LP inh" indication is shown and the VCR enters the Stop mode. speed. Please note that LP mode

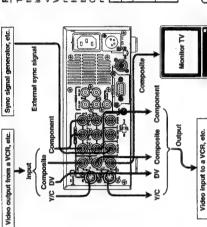
Audio channel indication

front panel's [AUDIO OUTPUT] switch only when 32 kHz Shows the audio channel of the signal output from the Indication and output signals can be switched with the In other modes, the indication and output signals are fixed as shown in the table below. rear panel's [AUDIO OUT] connectors. sampling rate signals are played back.

Sampling rate		32K		46	48K	44.1K
Mode	PB	A.DUB	EE/REC	PB	EE/REC	PB
CH1	0	1	O Fixed	Pixed	Fixed	O Fixed
# +B	0	O Fixed	ı	1	1	1
CH 1/2 (1)	0	_	1	,	ŀ	1

CONNECTIONS

3-1 Video system connections



The on-screen display can be viewed on a monitor con-Connecting a monitor

Connecting video equipment
Connect the video device to the appropriate connector (4 nected to the [VIDEO MONITOR OUT] connector.

Outputs

types are available).

Analog outputs

Composite signal: [LINE OUT] connector (BNC) Component signal (Y/B-Y/R-Y): [COMPONENT OUT]

YC signal: [Y/C OUT] connector (4-pin) connectors (BNC x 3)

Digital video signal (conforming to IEEE 1394) [DV IN/OUT] connector

Digital output

Inputs

Select input video signals with the No. 108 < VIDEO INPUT SELECT > menu switch.

Analog inputs

Composite signal : [LINE IN] connector (BNC) Component signal (Y/B-Y/R-Y) : [COMPONENT IN] connector (BNC x 3)

YC signat : [Y/C IN] connector (4-pin)

Digital video signal (conforming to IEEE 1394): [DV IN/OUT] connector

- Note:

 When search pictures or low-quality video signals are input, temporary distortion of picture or sound may occur. Clean up the signals with a TBC or other processing device before inputting.

Reference sync signal

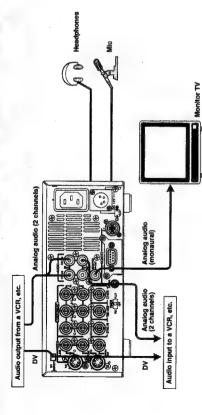
the table below, depending an the presence of external sync input (SYNC IN) and video input (VIDEO IN), the No. 003 «SYNC SELECT» menu switch setting and operation mode. When IEEE 1394 input is selected. "INT is selected regardless of the setting. When the No. 108 «VIDEO INPUT SELECT» menu switch is set to "COMPONENT", This unit automatically selects the sync signal BB shown in the operation is the same as that performed with the No. 003 <SYNC SELECT> menu switch set to "AUTO" regardless of the setting.

		Š	XBS	õ	Yes
VIDEO IN		Š	Š	Yes	Yes
EXTERNAL Playback	yback	ΙΝΙ	EXT	LNI	EXT
Rec	Recording	INT	Ā	VIDEO	VIDEO
AUTO PIR	Playback	INT	EXT	VIDEO	EXT
R	Recording	Ī	Ā	VIDEO	VIDEO

INT: Internal sync EXT: External sync VIDEO: Video sync

- The phase of the output signal cannot be adjusted for external sync signals. The sub carrier cannot be
- are output from the component connector, color may Plugging and unplugging the external sync or video signal connector during operation causes distortion in the picture and sound for about 10 seconds. When signals input from the composite connector
 - disappear in some parts of the left section of the monitor screen. This is not a malfunction.
- The set up is not applied to signals input to the [DV IN/OUT] connector and output in EE mode (component, Y/C, composite). Input signals are recorded
 - Use a video signal of less than 1 V(p-p) such as a black burst signal for external sync signal.
- connector, distortion may occur in the lower section of the picture in the EE mode. However, recording When video signals are input to the DV IN/OUT is performed normally.
- When the No. 003 <SYNC SELECT> menu switch is set to "EXTERNAL" and no signal is input to the [SYNC IN] connector, noise may appear in the playback picture. This is not a maffunction.

3-2 Audio system connections



Connection with a monitor TV
The audio output from the [AUDIO MONITOR OUT]

connector is monaural

Use the front panel AUDIO MONITOR) switch to select the audio channels you want to monitor. The selected audio channel is shown in the table below. Adjust the audio volume level on the monitor.

Audio can be monitored in stereo using the headphones. Use the front penel (AUDIO QUIPUT) switch to select the audio channels you want to monitor. The selected audio channel is shown in the table below. Adjust the audio volume level with the front panel [PHONES] control. Headphones Jack

Analog Inputs

the CH1 and CH2 channels. Recording on the CH3 and CH4 can be performed in the Audio Dubbing mode with the No. 245 <SAMPLING RATE> menu switch set to "32K". Analog input connectors are only provided for 2 channels. It is not possible to record 4 channels simultaneously. Audio input from each connector is normally recorded on For audio dubbing, refer to "Audio dubbing" on page 24. Audio connectors (CH1/3, CH2/4)

Digital signals conforming to IEEE 1394 can be input to the IDV INVOUT connector. In this case, the audio recording level cannot be adjusted. When audio signals are input to the [DV INVOUT] connector, some noise will occur at the point where recording ends. To reduce this noise during playback, set the No. 214 < V. FADE> menu switch to "ON". Digital inputs

Connect a monaural microphone. The same audio is recorded on both channels. Mic Input jack

Outputs

Analog outputs

Audio connectors (CH1/3, CH2/4)
Analog output connectors are provided for 2 channels. For ManiOV format, use the front panel (AUDIO OUTPUT)
switch to select for 4-channel audio. The selected audio channel is shown in the table below

Digital outputs

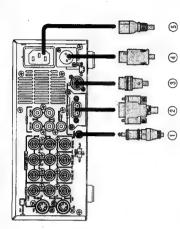
Digital signals conforming to IEEE 1394 are output from the [DV IN/OUT] connector.

swiftch and audio output channel
(Dung platbether) and 28 kHz sampling, audio dubbing, and DV
Input with the 32 kHz sampling in the EE mode)
Regardless of setting of this swifth. CHTIZ is selected for ordinary
recording, record pause and analog audio input in the EE mode.
CH3/4 is selected for audio dubbing in the Pause mode. Relationship between [AUDIO OUTPUT] / [AUDIO MONITOR]

		14	N.	4						2	_
	AUDIO OUT	CH2/4	상	CH2/4	₽ ₩	중	CH2/4	A	CH2	CH2/4	CH4
Connector	AUD	CH1/3	CHI	CH1/3	CH3	CHJ	CH1/3	CH3	용	CH1/3	CH3
	TO GOTTING	MUNITURIOR	СМ	CH1/3	CH3	CH1/2	CH1/2/3/4	CH3/4	CHS	CH2/4	CH4
AUDIO switch	21001	OOIPO	CH1/2	E XIW	CH3/4	CH1/2	MIX	CH3/4	CH1/2	MIX 🛭	CH3/4
AUDIC	OCT.	MONITOR		-			MA MA				

3 CONNECTIONS

3-3 Other connections



Remote connector

Connect a remote controller to the appropriate connector (three types are available).

		_	_
Connectable remote controller	RM-G30	RM-G820	RM-G800
Type of connector	① [SERIAL] connector	③ [REMOTE1] connector RM-G820	(3) [REMOTE2] connector RM-G800

- Note:

Before connecting the RM-G800, be sure to turn the VCR OFF. Do not connect or disconnect the remote cable with the VCR ON.

Power sockets

2 types of power supply are avaitable (AC, DC) DC power supply socket © Connect DC 12 V.

AC power supply socket ⑤ Connect AC 120 V (U MODEL), AC 220 – 240 V (E MODEL).

Set the menu switch according to the type of battery that Selection of battery type

will be used.

" if the setting does not correspond to the battery type, the battery remaining time and battery alarm will not be correctly displayed.

| Note:

 Do not use this unit continuously when the battery indicator is displayed. The unit may not operate properly. Remove the battery to avoid over-

(3) See "396 BATTERY SELECT" on page 19.

Used battery

Trimpack 13 and 14 series Pro Pac 13 and 14 series NP-L46 The following batteries can be used with this unit.

Flat shape type Anton Bauer Inc.:

IDX Corporation :

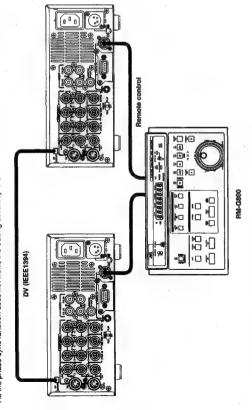
3 CONNECTIONS

3-4 Editing system examples

The BR-DV600U can be used as a feeder for different video formats.

Using an editing remote controller with JVC bus specifications such as the RM-G800, digital cut editing is possible with another MinIDV VCR. When the BR-DV600U is used as a recorder, the following editing operations cannot be performed. Simplified digital cut editing system

- Insert editing
- EE function (auto EE function) As the phase sync function does not work, the editing accuracy is ± 5 frames.



- When used in an editing system with the RM-G800, the BR-DV600's preroil operation is comparatively
 - When editing, the input signal (picture from the playback VCR) can be monitored. The playback picture of the recorder VCR just before the edit-in slow. This is normal and is not a malfunction.

- Pris unit cannot be checked.
 This unit cannot be used for CTL editing. Use for the time code editing.
 During remote control operation, be sure to turn the jog dial slowly. Otherwise, the VCR may not be able to keep up with the operation.
 When this unit is operated with the remote control unit, audio cannot be checked if it is played back at
 - a speed of less than 1x.

 If editing is started in the Pause mode (stiff) at the
- preroll point, editing accuracy may be degraded.

 Use the RM-G800 with the out-point return function OFF. Otherwise, it takes longer to stop editing.
- OTHERWISE, the IEEE 1394 "EE INT" error indication is

For servicing

See the service manual page 1-20 "1.11 EDITING SYSTEM USING THE BR-DV600".

3 CONNECTIONS

3-4 Editing system examples

■ Mixed S-VHS/VHS system

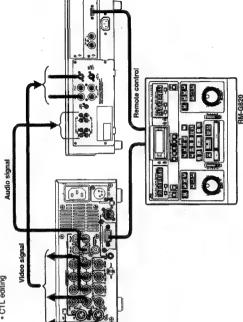
This is an editing system which uses the BR-DV600U as a feeder/player with an RS-422A serial remote controller such as the RN-GSC0. In this case, the BR-DV600U cannot be used as a recorder VCR.

The S-VHSAVHS VCR can be replaced with a D-9/Betacam VCR.
The following editing operations are not available.

• Variable search

• Slow-motion editing

• CTL editing



- accuracy of 0 frame cannot be obtained. Set the Even during the time code editing, the editing remote control's sync grade to ±1 frame.
- During remote control operation, be sure to turn the jog dial stowny. Otherwise, the VCR may not be able to keep up with the operation.
 When this unit is operated with the remote control unit, audio cannot be checked if it is played back at a speed of less than 1x.

3 CONNECTIONS

Edit adjust setting The No. 353 <EDIT ADJUST> menu switch must be adjusted according to the configuration of the editing system being

Setting table (when the RM-G800 is used)

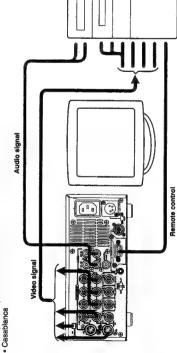
Signal connection method	Player	Settlng	Recorder	Settling
Analog	BR-DV600	0 F	BR-DV600	4 F
IEEE 1394	BR-DV600	0 F	BR-DV600	2F
Analog	BR-DV600	0 F	BR-S800	ŀ
Anałog	BR-DV600	0 F	SR-S365 (U MODEL) SR-S388 (E MODEL)	ı
Analog	BR-S800/BR-S500 (+ SA-N50)*		BR-DV600	3.5

To ensure the stability of input signals, install the SA-N50 in the BR-DV600.

Non-linear editing system

Material recorded on a MiniDV tape can be captured to a non-linear editing system. The following non-linear editing systems are able to utilize Super Scene Finder (SSF) data.

• Canopus Corporation: DV Rex HT



Control via the DV connector

- When the DV connector is used for control, assemble editing cannot be performed.
 When the VCR is stopped via the DV connector, a command error message may be returned to the controller. This is not a maifunction.

Notes on connecting a cable to the [DV IN/OUT] connector

Set the following menu switches, turn the connected equipment ON and then connect the cable to the [DV IN/OUT] connector. (If two BR-DV600s are connected to each other, it is not necessary to turn them ON.)

- When used as a player
 When used as a player
 When used as a player

 (If this switch is currently set to "IEEE 1394", change the setting and turn the power OFF and ON again.)

 When used as a recorded as a recorded.
 Set the No. 108 «VIDEO INPUT SELECT> menu switch to "IEEE 1394".
 When controlled by another device via the [DV INPUT] connector
 Set the No. 050 «AEMOTE SELECT> menu switch to "IEEE 1394".

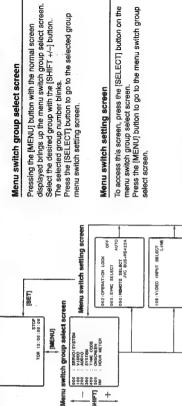
For servicing
See the service manual page 1-10 "1.6 SERVICE MENU".

MENU SWITCHES

You can set menu switches using either the on-screen display or the counter display. To set switches on the on-screen display, you will need to connect a monitor to the VCFR [VIDEO MONITOR OUT] connector. This section explains how to set switches using the on-screen display. The same procedures apply to switch setting on the counter display, the only difference being that each menu switch item is indicated by numeric code attlef than by name.

Menu switch organization

On-screen display



EHIE +

To access this screen, press the [SELECT] button on the menu switch group select screen.

Press the [MENU] button to go to the menu switch group

Menu switch setting procedure

DRUM HOUR METER

(HOUR METER)

SELECT

- Press the [SHIFT -/+] button on the menu switch setting screen to select the menu switch you want to set. - The selected menu switch number blinks.
 - 3 Repeat steps 1 and 2 to change any other menu switches 2 Press the [SELECT] button to change the set value.
- restored. When entering the data, the indications shown on the left are displayed. If data has not been entered and menu switch setting is ended, "Abort" indication is A Press the [SET] button to end menu switch setting. -The set value is entered and the normal screen

75 ATA Counter display

On-screen display

When entered

-DAYA ser-

To access another group menu switch setting screen without anding menu switch setting, press the [MENU] button.

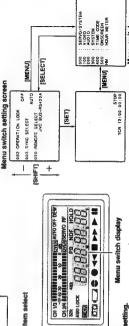
Pbor!

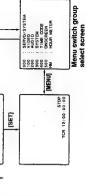
- ABORT

When data has not been entered yet

SHIFT] +/-: Item select

Witching the





Menu switch display

SELECT: Changes the setting. SET: Enters the setting.

MONTON OUTPUT C

E

9

6

4 MENU SWITCHES

4-2 Menu switch details

 Factory setting (00): The number in the bracket shows the set value on the For switch setting procedures, refer to "Menu switch setting

counter display.

002 OPERATION LOCK

Details: Switches the operation lock ON/OFF

OFF (00): The operation lock is OFF: all operations are enabled.

ON (01): The operation lock is ON: all controls are disabled except for the [MENU] button.

93

SYNC SELECT Details: Selects the sync signal during play.

Seting.

EXTERNAL (01): Synchronizes with the signal input to the (SYNC INI) connector.

AUTO (03): Switches the synchronization automatically depending on whether or not a signal is input to the (SYNC INI) connector. For details, refer to page 11. ● AUTO (03):

020

Details: Selects the remote controller connected to the [PEMOTE] connector on the rear panel. When the optional SA-K46 RS-232C interface board is installed at the [PEMOTE 1] connector, some setting indications will change.

Setting:
IEEE 1394 (01): Allows control of this unit with the controller connected to the [DV IN/

Allows control of this unit with the controller connected to the OUT] connector. RS422A (04):

| FEMOTE 1] connector. | REE 1394 + RA922A (05); Allows control of this unit with the controllers connected to the [DV IN/OUT] and [REMOTE 1] connectors.

Allows control of this unit with the controller connected to the JVC BUS (08):

JVC BUS + IEEE 1394 (09): Allows control of this unit with the controllers connected to the [HEMOTE 2] and [DV IN/ EMOTE 2] connector.

with the controllers connected to the [REMOTE 2] and [REMOTE 1] OUT] connectors. JVC BUS + RS422A (12): Allows control of this unit

connectors.

JVC BUS + RS422A + 1394 (13): Allows control of this unit with the controllers connected to the [REMOTE 2], [REMOTE 1] and [DV IN/OUT]

(When the optional SA-K46 RS-232C interface board is installed)

IEEE 1394 (01): Allows control of this unit with the controller connected to the [DV IN/

OUT] connector. Allows control of this unit with the controller connected to the REMOTE 1] connector. RS232C (02):

unit with the controllers connected to the [DV IN/OUT] and [REMOTE 1] IEEE 1394 + RS232C (03): Allows control of this

JVC BUS (08): Allows control of this unit with the controller connected to the [REMOTE 2] connector.

unit with the controllers connected to the [REMOTE 2] and [DV IN/OUT] connectors. JVC BUS + IEEE 1394 (09): Allows control of this

OUT] connectors. JVC BUS + RS232C (10): Allows control of this unit the [REMOTE 2] and [REMOTE 1]

Connectors.

■JVC BUS + RS232C + 1394 (11): Allows control of this unit with the controllers. connected to the [REMOTE 2], [REMOTE 1] and [DV IN/OUT] connectors.

108 VIDEO INPUT SELECT
Details: Selects the input video signal. Setting:

LINE (00):

Selects video signals input to the (LINE IN] connector. Selects video signals input to the [Y/C IN] connector. COMPONENT (02): Selects video signals input to the [COMPONENT IN] Y/C (01):

IEEE 1394 (03): Selects video and audio signals input to the [DV IN/OUT] connector. In this case, analog audio signals are not input.

126 SETUP (U MODEL)
Details: State whether or not the setup is applied to
the analogy video signals (composite, Y/C,
component).

Setting:

OFF (00): Does not apply the setup.

OFF (01): Applies the setup. Set to this position to play back a tape recorded on the GY-DVS00.

This setting affects recording and playback of

analog video signals.

• Picture hue and brightness can be affected if didubing is repeated without applying a setup suitable to video signals.

4-2 Menu switch details

4 MENU SWITCHES

 Factory setting
 The number in the bracket shows the set value on the counter display.

AUDIO OUT AT SEARCH 212

Details: Selects whether or not audio is output to the [AUDIO OUT] and [AUDIO MONITOR OUT] connectors and headphones jack during search at speeds above ±1x.

Setting: OFF (00): No output.

ON (01): Audio is output.

Details: Switches the V. fade function ON/OFF. V.fade reduces audio noise at the tag recording V. FADE

Setting: OFF (00): The V. fade function is not activated. OFF (01): Activates the V. fade function. during playback.

SAMPLING RATE 245

Details: Selects the sampling rate frequency when recording audio digitally.

32K (100): Records signals at a 32 kHz sampling frequency. Set to this position for audio dubbing on CH3 and CH4.

48K (01): Records signals at a 48 kHz sampling frequency. Audio dubbing is not possible with this setting.

AUTO PLAY 311

Details: Selects whether or not playback starts automatically after the tape is rewound to the beginning.

Setting:

SHORT FF (00): The tape stops after short FF.

Auto play does not start.
Auto play starts. Repeat playback is available when No. 312 <AUTO REW> menu switch is set to "ON". PLAY (01):

312 AUTO REW

Details: Selects whether or not the tape is rewound automatically at tape end during recording or

Setting:

ON (01): The tape is not rewound automatically,
ON (01): The tape is rewound automatically.
Repeat playback is available when No.
311 < AUTO PLAY> menu switch is set to
"PLAY"

353 EDIT ADJUST

Switch setting differs depending on the configuration of the editing system. For details, refer to "Edit adjust setting" on page 16. Details: When this unit is used with an editing controller and the edit-in point is shifted, this corrects the play start timing

The playback start point is delayed by 1 frame. The playback start point is delayed by 2 frames. The playback start point is delayed by 3 frames

to the factory set timing.

The playback start point is delayed by 4 frames.
The playback start point is delayed by 5 frames.
The playback start point is delayed by 6 frames.
The playback start point is delayed by 7 frames. # 12 19 F

AUTO REW AT TIMER
Details: Selects whether or not the tape is automatically rewound when the VCR power is switched ON in the Timer Play or

360

Setting:

OFF (00): Playback or recording starts immedi-Recording Standby mode.

ately. The tape is not rewound.
ON (01): Playback or recording starts after the tape is rewound to the beginning.

422A interface.

CONTROLLER SELECT
Details: Selects the setting according to the type of remote control unit connected via the RS-

363

TYPE 8 (07)

396

BATTERY SELECT
Details: When using DC power, set this switch
according to the DC power supply and battery type.

Setting:

12 V (00): Select this setting to use a DC power supply (AA-G10) or DC 12 V flat shape

13.2 V (01): Select this setting to use Anton Bauer 13.2 V (01): Select this setting to use Anton Bauer 14.4 V (02): Select this setting to use Anton Bauer inc:s Timpack 14, ProPac 14 and IDX

Corporation's NP-L46.

180

For servicing See the service manual page 1-19 "1.11 SET UP SW".

4 MENU SWITCHES

4-2 Menu switch details

Factory setting (00): The number in the bracket shows the set value on the counter display.

397 FAN STOP SHUTDOWN
Details: Sets whether or not VCR operation continues if the fan motor stops.

Setting:

• ENABLE (00): The power turns off about 1 minute

even after the far motor stops.
When the far motor stops.
When the far motor stops, press
the (OPERATE) button as soon as
possible to turn the VCR's power
off. If not, a maffunction may occur
due to overheating. after the fan motor stops. DISABLE (01): The VCR continues operation

TCG SELECT
Details: Selects the time code generator mode.

● PRESET (00): Engages the Preset mode. REGEN (01): Engages the Regen mode.

TCG MODE
Details: Selects the time code generator Run mode. FREE RUN (00): Engages the Free Run mode.

• REC RUN (01): Engages the Rec Run mode. 416 NON DROP/DROP (U MODEL)
Details: Selects the time code generator Drop Frame mode.

Setting:

DROP (00):

DDRÖP (00): Engages the Drop Frame mode.

NON DROP (01): Engages the Non-Drop Frame mode.

500 ON SCREEN
Details: Selects whether or not the on-screen display is shown on the monitor.

Setting: OFF (00): The display is not shown. ● ON (01): The display is shown.

CHARACTER H.POSITION 501

Details: Moves the display position of the tape counter on screen, etc. horizontally.

O(00) The display position can be moved in seleps from to 8. The factory setting is 8 (08) °C' (the display position at the far right).

 The tape remaining time indication.

position cannot be changed.

502 CHARACTER V.POSTRION
Details: Moves the display position of the tape
counter on screen, etc. vertically,

Setting:
0 (00) The display position can be moved in
0 (01) 12 steps from 0 to 11. When the No. 504
- «INFORMATION SELECT» menu switch is
11(11) set to "MODE + TIME>, setting to "0" is not

The tape remaining time indication position on screen can be changed up and down with this switch.

504 INFORMATION SELECT
Details: Selects which information is displayed on the on-screen display.

Setting:
Time data is displayed
Time data and isper unning

MODE+TIME (01): Time data and isper unning
mode are displayed.

505 REMAIN ENABLE
Details: Selects whether or not the tape remaining time is shown on the on-screen display.

Setting:

OFF (00): Remaining time is not shown.

ON (01): Remaining time is shown.

514 TIME DISPLAY SELECT
Details: Selects the type of time data displayed.

Setting:
DATE (00):
Shows the date.
CLCK (01):
Shows the line.
DATE+CLOCK (02): Shows the date and time.

TC (03):
Shows the time code data.

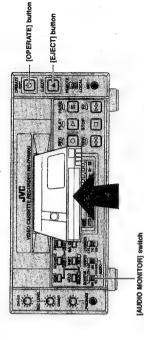
Details: Selects the type of data displayed on the tape counter in the LCD display. 516 DISPLAY SELECT

Setting:

TC (00): Shows the time code data.
CLOCK (01): Shows the date and time. You can switch between date and time with the [COUNTER] switch.

5 PREPARATION

Preparing this unit for recording or playback



Turn the power ON

Press the [OPERATE] switch. The counter display lights

Turn the power OFF

Press the [OPERATE] switch. "oPF-oFF" is shown in the counter display.

Loading/unicading a cassette

Insert the cassette into the cassette loading slot with the window facing up. Push the cassette in slowly until the - The VCR enters the Stop mode and the cassette loading mechanism starts automatic loading. indicator (☑) lights.

Press the [EJECT] button to eject the cassette. The cassette tape is ejected.

Audio moritor selection

Use the [AUDIO MONITOR] switch to select the audio channel to monitor (via the [AUDIO MONITOR OUT] connectors).

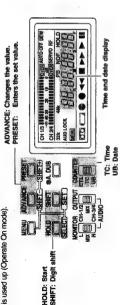
5 PREPARATION

Built-in clock setting

Time data is recorded in the sub code area of the tape during recording. In the Play mode, this data is read out and can be shown on the on-screen display or the counter display.

[Reference]

Clock data is retained for about 60 hours after the 6-hour power supply is used up (Operate On mode).



Setting procedure

The names of the operation buttons are shown above the buttons.

Set the tape counter display to the time display.
Set the No.516 < DISPLAY SELECT> menuswitch to "CLOCK". (7 See No. 516 < DISPLAY SELECT> on page 20.

11.11.31

2 Set the [COUNTER] switch to "TC" or "UB",

The time display is shown in the tape counter.

• To set the date, set to "UB". To set the time, set to "TC".

The date display is shown in the tape counter. 3 Engage the setting mode.

Press the [HOLD] button. Clock setting

-- The hour digit starts to blink.

 Date setting
 The month (U MODEL), day (E MODEL), digit starts to blink.

 Change the value.

Each time the [ADVANCE] button is pressed, the value of the birnking digit increases. While holding down the [SHIFT] button, press the LADANACE] burdon to reset the value as follows. • Clock setting: '00:00:00" • Date setting: '01:01:2000"

5 Shift the digit.

Press the (SHIFT) button.

• Clock setting: Each time the (SHIFT) button is pressed. minutes -- seconds.

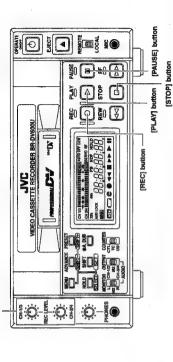
• Date setting: Each time the [SHIFT] button is pressed, the blinking cursor moves in the order of hours --

the blinking cursor moves in the order of month → day → year (U MODEL), day → month → year (E MODEL). Repeat steps 4 to 5 to change the values for each digit.

Press the [PRESET] button to enter the set data. 6 Enter the set data.

[REC LEVEL] control

6 RECORDING



Recording preparation

Loading a cassette

Check that the erasure prevention tab is set to allow

insert the cassette in the cassette loading slot.

[2] Press the [PAUSE] button to temporarily stop recording. To restart recording, press the [PLAY] button. To stop recording, press the [STOP] button.

Press the [PLAY] button while holding down the

-- Recording starts.

[REC] button.

Recording

Input video signal selection

Selects the composite video signals input to the Select the input video signal with the No. 108 < VIDEO INPUT SELECT> menu switch.

Selects the Y/C signals input to the [Y/C IN] [LINE IN] connector. ζĊ

COMPONENT: Selects the component video signals input

IEEE 1394: Selects the digital video signals and the digital audio signals input to the [DV IN/OUT] connector. to the [COMPONENT IN] connector.

being used in a low-temperature environment, the Stop mode is engaged within about 3 minutes.

When a tape recorded on this unit is played back on

a consumer MiniDV VCR, the sound level may be ■ During recording, the upper section of the picture may be distorted or deflect. This is not a malfunc-

If the unit remains in the Pause mode for more than 5 minutes, the Stop mode is automatically engaged remaining time is less than 3 minutes or the unit is

Notes:

to prevent the tape from being damaged. If tape

Audio sampling rate setting

Select the audio sampling rate with the No. 245 <SAMPLING

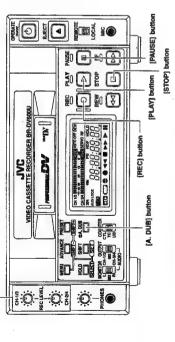
The number of usable audio channels is determined by the sampling frequency selected with the No. 245 <SAMPLING

32 kHz: 4 channels

In normal recording, signals are recorded on CH1 and CH2. In the audio dubbing mode, signals are recorded on CH3 and CH4.

48 kHz: 2 channels

Signals are recorded on CH1 and CH2. Audio dubbing is not Adjust the audio recording level with the [REC LEVEL] control.



Audio duobing

Signals can only be recorded on CH3 and CH4.

Set the No. 245 <SAMPLING RATE> menu switch to switch to any position except "IEEE 1394". (Audio dubbing is not possible with digital audio input.) Set the No. 108 <VIDEO INPUT SELECT> menu

3 Press the [PAUSE] button at the position from which you want to start recording audio. [3] Press the [PLAY] button to play back the tape.

While holding the [PAUSE] button, press the [A.DUB]

button.
The Audio Dubbing Pause mode cannot be engaged unless the VCR is in the Stop mode. First engage the Stop mode. Thist engage the Stop mode. Then, while holding down the [PAUSE] button, press the [A. DUB] button. Audio dubbing

inh" indication is shown and the VCR enters the Stop 4 Adjust the audio recording level with the [REC mode

example, if a section of tape recorded using 48 kHz sampling is backspaced in the Pause mode — the "Aud

If audio dubbing is disabled for any reason — for

To stop audio dubbing temporarily, press the [PAUSE] [5] Press the [PLAY] button to start audio dubbing. Audio signals are recorded on CH3 and CH4. LEVEL] control.

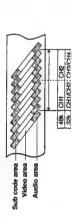
I To end audio dubbing, press the [STOP] button.

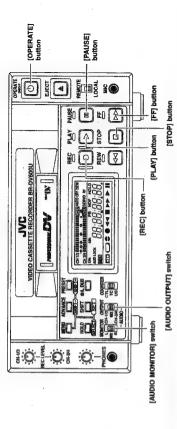
- Audio dubbing is not possible on tapes recorded with 48 kHz sampling frequency.
- If audio dubbing is performed repeatedly on a short section of the tape, there may be some noise when this section is played back.
- unit. If another tape is used, first dub it to a tape on this unit. When audio is dubbed on a tape recorded For audio dubbing, use a tape recorded with this on another VCR (including another BR-DV600), sound and picture may be distorted.
 - During audio dubbing, noise might be visible on the playback picture. But it is not a trouble of BR-DV600. Audio dubbing itself is proceeded normally.
- It is not possible to use the audio dubbing function to record the CH1/2 playback signal on CH3/4 (sound-On-sound)

Recording section on the tape

In the MiniDV format, one video frame consists of 10 tracks. Each track includes recording sections for audio, video and sub code (time code, date, time).

sampling rate frequency selected. In the Audio Dubbing section which is created when the 32 kHz sampling frequency is selected. mode, audio signals are recorded in the CH3 and CH4 As shown in the diagram, the audio recording section provides 2 channels or 4 channels depending on the





Playback preparation

[1] Press the [OPERATE] button to turn the power ON.

I Set the No. 311 <AUTO PLAY> and No. 312 <AUTO

Repeat play

REW> menu switches to "ON", L? See No. <311 AUTO PLAY> and No. 312 <AUTO

- [2] Insert the cassette into the cassette loading slot. Select the audio output channel.
- Select the signals output from the (AUDIO OUT) connec-CF See "Audio system connections" on page 12. tors with the [AUDIO OUTPUT] switch.

playback starts again. This operation repeats each time the tape ends.

3 To stop Repeat Play, press the [STOP] button.

At tape end, the tape is rewound automatically and

2 Press the [PLAY] button to start playback.

REW> on page 19.

Playback

- Press the [PLAY] button.
- Video and audio signals are output from each output connector. Other data recorded on the tape is read out (time code, user bits, etc.)

- Notes:-

- 3 To temporarily stop playback, press the [PAUSE] 1 To stop playback, press the [STOP] button.
- For fast-forward playback, press the [FF] button
- For fast reverse playback, press the [REW] button during playback.
- You can select whether or not to play sound during fast-forward playback or fast reverse playback with the No. 212 <AUDIO OUT AT SEARCH> ON/OFF setting. during playback.
- engaged within about 3 minutes. The Stop mode is 5 minutes, the Stop mode is automatically engaged to protect the tape. If tape remaining time is less If audio dubbing is performed repeatedly on a short section of the tape, there may be some noise when is played back on this unit, the sound level may be When a tape recorded on a consumer MiniDV VCR continues for more than 1 minute with the remote than 3 minutes or the unit is being used in a low-■ When the Pause mode continues for more than temperature environment, the Stop mode is also engaged automatically if slow playback this section is played back.

controller or reverse slow playback continues for

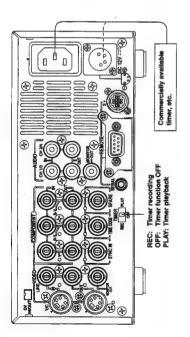
more than 20 seconds.

7 PLAYBACK

12

8 EXTERNAL TIMER-START FUNCTION

(AUTOMATIC START-UP WITH POWER SUPPLY)



When power (AC 120 V (U MODEL), AC 220 – 240 V (E MODEL) or DC 12 V) is supplied to this unit, it automatically enters the Record or Play mode. Using a commercially available timer, you can configure your VCR to start recording or playback at a

Pierse

Connect the power cable.

connect the power cable plug to the timer's power output To turn this unit ON with a commercially available timer, Set the front panel's [REMOTE/LOCAL] switch to

2 Insert a cassette.

3 Set the rear panel's [TIMER] switch to "PLAY".

When power is supplied, playback starts automati-

Repeat playback can be set with menu switch setting.

I.T. See No. <311 AUTO PLAY> and No. 312 <AUTO

REW> on page 19.

With the menu switches set appropriately, the tape can be rewound to the beginning before starting playback.

Press the [STOP] button. Stop playback.

Recording

connect the power cable plug to the timer's power output To turn this unit ON with a commercially available timer, Set the front panel's [REMOTE/LOCAL] switch to Connect the power cable.

2 Select the video input.

3 Adjust the audio recording level.

4 Insert a cassette.

 When power is supplied, the VCR automatically enters the Record mode. Set the rear panel's [TIMER] switch to "REC",

recording after rewinding the tape to the beginning. I.Z. See No. 360 <AUTO REW AT TIMER> on page 19. Using the menu switches, you can set the VCR to start

7 Stop recording.
Press the [STOP] button.

Note:

VCR operation. Do not use an external timer to turn the VCR power off while the tape is running. Doing External timer control should only be used to start so could damage this unit or the tape.

9 TIME CODE

The time code is recorded frame by frame together with the materials to be recorded on the tape. With this time code, the position of the materials can be precisely specified, improving the editing accuracy and working

efficiency. (The editing accuracy of 0 frame may not be obtained even though the time code is used, depending on the performance of the VCR and editing controller and influence of editing system.)
With this system, the time code can be recorded and played back.

On-screen display



C See No. 514 < TIME DISPLAY SELECT> on page 20. To display time code data on the counter display, set the No. 516 < DISPLAY SELECT> menu switch to

set the No. 514 <TIME DISPLAY SELECT> menu

switch to "TC"

Time code can be shown on the counter display and on the 1 To display time code data on the on-screen display,

on-screen display during playback and recording.

Display

3 Set the [COUNTER] switch to "TC" or "UB". TC: Shows the time code data display. UB: Shows the user bits display.

ICT See No. 516 < DISPLAY SELECT> on page 20.

All time code data including time code generator/reader, drop/non-drop frame (U MODEL), CTL interpolation, etc. are shown on the on-screen display

Counter display



To give you more control over your material in editing and recording, you can specify a preset time code value while referring to the counter display indications. Determine the

ADVANCE: Changes the value. PRESET: Enters the set value.

HOLD: Start SHIFT: Moves the cursor to the next digit.

required time code value beforehand.

Set the [COUNTER] switch to "TC" so that the counter.

display shows the time code.

Set the [COUNTER] switch to "UB" to show the user bits on the counter display.

> DO BO BB BO

n.

procedure is used to preset the user bits, except that user bit values are hexadecimal (0 to F). Time code presetting is described below. The same

Time code/user bits display

TC: Time code UB: User bits

 Set the menu switches. (□ See page 20.)
 Set the No. 414 <TCG SELECT> menu switch to "PRESET

Set the No. 415 <TCG MODE> menu switch.

Setting is not necessary for user bits. REC RUN: The time code is counted only during recording.

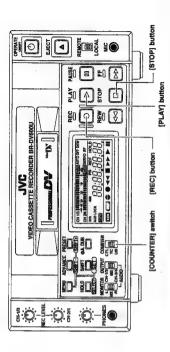
FREE RUN: The time code is counted after the preset is complete.

NON DROP: Engages the Non-Drop Frame mode. DROP: Engages the Drop Frame mode. ■ Set the No. 416 <NON DROP/DROP> menu switch. Setting is not necessary for user bits.

(U MODEL)

- [2] Press the [HOLD] button to engage the time code
 - -The uppermost digit blinks.
 - 3 Press the [ADVANCE] button to change the value. The blinking number increases.
 Hold down the [SHIFT] button and press the [ADVANCE] button to reset all digits to "0".
- The blinking cursor on the digit moves to the right. Press the [SHIFT] button to change the digit.
- 3 To change the digit, repeat steps 3 to 4.
- The time code setting mode is released and the 6 Press the [PRESET] button to enter the value. normal display is restored.
- 7 To check the preset time code, press the [REC] button in the Stop mode.

9 TIME CODE



Resortaing

- Time code can be recorded in the following ways.

 Time code recording starts from the preset data.

 Time code recording follows the time code already recorded on the tape.

Time code recording starts from the preset data. Menu switch setting

No. 414 < TCG SELECT> "PRESET"
No. 415 < TCG MODE> "REC RUN" or "FREE RUN"
No. 416 < NON DROP/DROP> "NON DROP" or "DROP" (U

I Check the preset value.

in the Stop mode, press the [REC] button.

— Time code data is shown on the on-screen display Set the [COUNTER] switch to "TC" or "UB".

counter mode is shown as "TCG" or "UBG".
Release your finger from the [REC] button to restore the and counter display. On the on-screen display, the previous display.

While pressing the [REC] button, press the [PLAY]

2 Start recording.

-- Time code and user bits are recorded.

To stop recording, press the [STOP] button.

Playback

Operation

 Select the time code data to be displayed. Set the [COUNTER] switch to "TC" or "UB"

The counter display shows the time code or user bits. [2] Press the [PLAY] button to play back the time code and user bits.

LTC time code is output from the rear panel's [TIME CODE OUT] connector. VITC time code is not output. The time code data is shown on the on-screen display and counter display. On the on-screen display, the counter mode is shown as TICPT or *UBR*. To stop playback, press the [STOP] button.

■ Time code recording follows the time code already recorded on the tape.

Menu switch setting

No. 414 <TCG SELECT> "REGEN" No. 415 <TCG MODE> "REC RUN" or "F'FIEE RUN" No. 416 <NON DROP/DROP> "NON DROP" or "DROP" (U MODEL)

1] Start recording.

-- The time code and user bits are recorded following While pressing the [REC] button, press the [PLAY]

The time code data is shown on the on-screen display and courter display, on the on-screen display, the counter mode is shown as TCR* or "UBR". To stop recording, press the [STOP] button. the data recorded on the tape.

Reference

Playback time code

tape. During playback, the data in the sub code area is processed in the LTC time code format and output to the Time code data is recorded in the sub code area of the [TIME CODE OUT] connector.

■ When you play back a tape that has no user bits recorded (for example, a tape recorded on a consumer MiniDV VCR), the user bits that were played back last will be displayed. Note on time code playback without user bits

3

10 SUPER SCENE FINDER FUNCTION

The SSF data recorded on the tape with the GY-DV500U's Super Scene Finder function can be read out by installing the optional SA-K46 HS-232C interface board. Consult your JVC dealer for details on installation of the SA-K46 HS-232C interface

Preparation

Connect the 9-pin D-sub connector of the installed SA-K46 RS-232C interface board to a personal computer, etc. with an RS-232C cable.

Use a reverse type cable. For RS-232C interface settings, refer to "RS-232C specifications" on page 32.
Set the No. 605 AFRINOT E SELECT> menu switch to
"TS623C", "IEEE 1394+ RS232C", "JVC BUS + RS232C"
or "JVC BUS + RS232C + 1394".

Reading out SSF data

- 2 Transmit the RS-232C command D5h: SSF DATA 1 Insert the tape on which SSF data is recorded.
- editing system.

 -- The SSF data is returned from the VCR.

SENSE from a personal computer or a non linear

(Display example)

00:04:00:21 00:04:07:22 00:04:18:23 SUE 00:03:57:00 00:05:37:24 00:05:37:24 00:05:37:24 MARK OUT 00:00:04:19 90:00:00:00 00:03:56:18 00:03:56:18 00:03:56:18 00:00:06:03 00:00:00:16 MARK IN REEL NO. SCENE 001 M START

■ When a tape is recorded from the beginning in this unit, recorded SSF data is erased.

Super Scene Finder (SSF) data

SSF data

SSF data includes the following items.

- Unique identification code of the recording VCR - 1. Model ID data - 2. Reel No.
 - Cassette tape number - 3. Wark in point data
- pressing the [TAKE] button during shooting in the Time code data at the start point specified by Mark mode on the GY-DV500
 - Mark out point data

pressing the [TAKE] button during shooting in the Mark mode on the GY-DV500 Time code data at the end point specified by

Time code data at the cue points the GY-DV500 starts and ends recording and the cue point specified by pressing the [TAKE] button during shooting in the Cue mode. Cue point data

You can use SSF data to build a database that will enable you to manage your library of original recordings more efficiently. By creating a table linking the model ID and reel No. to the recording's title, you can easily search and retrieve a

Recordings

		Search		
Recording title	'99 athletic meeting	'99 spring excursion	'99 Christmas party	
Reel No.	0222	0100	0150	
Model ID	1000	2000	0003	

For example, when you retrieve "99 spring excursion", the model ID (0002) and the reel No. (0100) are also provided. Please note that this function is not provided. The table must be developed by the user.

Batch capture data conversion software for Canopus's DVRex-RT is distributed at no charge on the Internet (as 2] Based on the "mark in point data", "mark out point data" capture data for a non-linear editing system (Canopus' DVRex-RT or Casablanca). This allows you to and "cue point data" specified with the GY-DV500's Super Scene Finder function, you can create batch automatically acquire only specified scenes. of February, 2000).

11 RS-232C INTERFACE

11-1 Command tables

This section provides information on programming VCR operations via the RS-232C interface.

Basic table

STANDER OF THE COLUMN OF THE C				_									_		_		_
DATA 1 3 4 5 6 7 6 9 A B C D D D D D D D D D	ш							JVC TABLE 1 ON	JVC BASIC TABLE IDN			REC/DUB REQUEST	UTR IND				
OMIN' FILE STANDER	ш	TC DATA PRESET	TC LIN DATA PRESET	COUNTER				PREROLL TIME PRESET	TIMER MODE SELECT						MEMORY SW PRESET		
Out of the control	۵						SSF DATA SENSE	PREROUL TIME SENSE	STATUS SENSE	CURRENT TC SENSE	CTL SENSE			CURRENT TC UB SENSE	JVC STATUS SENSE		
OMAN	Ö					FULLEE	FULLEE					REC	PAUSE	A.DUB	A.DUB PAUSE		
O 1 2 3 4 5 6 7 6 9	8			CUE UP			FSHUTTLE	R-SHUTTLE								DATE	SENSE
OMAN T SHORE COMMENT CALCAR C	4	STANDBY	STANDBY	PREROUL	EJECT								世	REW	F-FIELD STEP	R-FIELD STEP	
0 1 2 3 4 5 6 7	6													L			_
0 1 2 3 4 5 6	8															PRESET	PRESET
0 1 2 3 4 5	1	<u> </u>	_		_		_		<u> </u>	_		<u> </u>		<u> </u>		_	L
0 1 2 3 4 4	9								STATUS								
0 1 2 3 4 4	15							EAG			1						
0 12 COMPILE TOWN ERROR CASSETTE OUT TARGET TARGET NOT THORY	4	ENTER	CLEAR	CUE UP				_				X EV	S S	REV X0.2	R-STALL	NEV X10	STILL
COMPILE TION EFFORM WANT TARGET NOT TARGE	3	DATA 'U"	DATA 11"	DATA 2	DATA 3	DATA "4"	DATA 5	DATA '6"	DATA 7	DATA '8'	DATA '9"	ΡĀ	ZX X	FWD X0.2	FSTRLL	ZWD X10	STOP
	2												_				_
	0		COMPLE- TION	ERROR	CASSETTE		NOT					YOK	NAK				
	Г	0	-	2	60	4	ND.	60	_	80	o	<	100	U	٥	ш	LL.

JVC table-1

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ш							JVC TABLE 1 ON	JVC BASIC TABLE EN			REC/DUB REQUEST	UNI MIA				
ш			COUNTER					TIMER MODE SELECT						MEMORY SW PRESET		
۵		DEVICE TYPE		MEMORY SW SENSE	TAPE REMAIN SENSE			STATUS	CURRENT TC SENSE	CURRENT CTL SENSE				JVC STATUS SENSE		
O					FULL EE	FULL EE OFF					REC	REC	A.DUB	ADUB		
8			CUE UP AND PLAY WITH DATA			FSHUTTLE	R-SHUTTLE								DATE	TIME
۷	STANDBY	STANDBY	PREROUL	EJECT								±	REW	FFRED	RFIELD	
6																
8															DATE	TIME
7		POM VERSION										OPERATE	OPERATE			
9								STATUS								
20							CLEAR									
4	ENTER	CLEAR			L											SLIFT
3	DATA 10"	DATA 11	DATA "2"	DATA 3	DATA '4"	DATA "S"	DATA 16"	DATA 7	DATA 18"	DATA 9	PLAY					STOP
2	_	_	_				_			-		_		_	\vdash	
0 1	_	COMPLE	ERROR	CASSETTE		NOT				-	VCK	NAK				
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11-2 RS-232C specifications

9PIN D-Sub



Direction of signals	VTR ← PC	VTR PC	ly VTR → PC		VTH - PC
Operations	Receive data	Transmit data	Data terminal ready	Signal ground	Data set ready
Signals	RXD	TXD	DTR	GND	DSR
Pin NO. Signals	2	9	4	c)	9

Note: PC means a controller such as a personal computer.

Mode : Non-synchronous Character length : 8 bits Parity check : None Start bit : 1 Stop bit : 1 Data rate : 9800 bps : Ill structure

♣ D0 D1 D2 D3 D4 D5 D6 D7 ♣

ASCII code table

Use this table to express the values or alphabets on the RS-232C interface.

8 9 A B C D E F	
В О П	
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00	1
L G D L □ L ⊃ > ≥ × > ν	
9 8 9 9 9 4 5 E - X E	ه =
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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00-00-00-00	
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0-20-400-00400	и

11 RS-232C INTERFACE

11-3 RS-232C commands

An optional RS-232C interface can be installed in this unit and connected to a personal computer. Data transmittied and received via the RS-232C interface enables the PC to control the VCR and gather status and operating information.

Preparation

To control the VCR via the RS-232C interface, set the No. 050-CHRMOTE SELECT's menu switch to "HS232C"," | EEE 1394 + RS232C", "JVC BUS + RS232C" or "JVC BUS + RS232C + 1394".

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TXD 3Ah RXD 0Ah

Commands Description 3A PLAY Play	These commands are used to o received correctly, the VCR retrogresponding to the command.	These commands are used to operate the VCR. When the command is received correctly, the VCR returns ACK (OAh) and enters the mode corresponding to the command.	(e.g.) Płayback	-li
3A PLAY Play	Commands	Description		
	3A PLAY	Play		

1		
Com	Commands	Description
34	PLAY	Play
38	FWD X2	2x play
ပ္ထ	FWD X0.2	0.2x play
ස	F-STILL	Pause
띯	FWD X10	10x play
3F	STOP	Stop
4A	REV X1	Reverse play
48	REV X2	2x reverse play
Q	REV X0.2	0.2x reverse play
40	R-STILL	Pause
4E	HEV X10	10x reverse play
4F	STILL	Pause
78	OPERATE ON	Operating mode ON
20	OPERATE OFF	Operating mode OFF
A0	STANDBY ON	Standby ON
A1	STANDBY OFF	Standby OFF
A 2	PREROLL	Preroll
A3	EJECT	Eject cassette
AB	14	Fast-forward. When this command is transmitted during playback, playback

	Eject cassette	Fast-forward. When this command is transmitted during playback, playback speed changes to 10x.	Rewind. When this command is transmitted during playback, reverse playback starts at 10x.	Advances one frame. This command should be transmitted in the Play-Pause mode.	Reverses one frame. This command should be transmitted in the Play-Pause mode.	Use this command to cue up a specified point on the tape. When the tape is cued,
I III LICEL	EJECT	FF	REW	F-FIELD STEP	R-FIELD STEP	CUE UP WITH DATA

₩ 8

A_C Φ

R-FIELD STEP	Reverses one frame. This command should be transmitted in the Play-Pause mode.
CUE UP WITH DATA	Use this command to cue up a specified point on the tape. When the tape is cued, COMPLETION is returned and the Pause mode is enganed.
	To specify the cue point, transmit the time data (hour minute: second: frame, a total of 8 bytes with 2 bytes for each) following this command.
CUE UP AND PLAY	Use this command to cue up a specified point on the tape.
WITH DATA	When the tape is cued, COMPLETION is returned and the Play mode is engaged.
	To specify the cue point, transmit the time data (hour: minute; second; frame, a total
	And O broken width O broken from an all the first of the

of 8 bytes with 2 bytes for each) following this command.
Shuttle play. The search speed is specified by sending the speed code data after this
command (see the table below). Speed code table (corresponding speed) F-SHUTTLE

8

8

Search speed Speed code 30h 31h 33h 34h 35h 36h 37h 38h

Com	Commands	Description
88	R-SHUTTLE	Shuttle reverse play. The search speed is specified by sending the speed code data after this command (see the table above).
2	FUEL EE ON	Full EE mode ON
છ	FULL EE OFF	Full EE mode OFF
ð	REC	Record. Transmit this command after transmitting REC DUB REQUEST.
8	REC PAUSE	Record pause. Transmit this command after transmitting REC DUB REQUEST.
8	A. DUB	Audio dubbing. Transmit this command during playback after transmitting REC DUB REQUEST.
8	CD A. DUB PAUSE	Audio dubbing pause. Transmit this command during audio dubbing after transmit ting REC DUB REQUEST.
23	COUNTER RESET	Counter reset
Ā	REC REQUEST	Recording request (use with the recording-related command).

information gathering (sense) commands

These commands are used to check the VCR operation conditions.

When a command requesting information is received by the VCR, data is returned in 1-byte packets corresponding to the Information requested. The number of bytes returned differs depending on the command.

Com	Commands	Description
72	ROM VERSION	Use to check the RS-232C interface-related ROM version. 3-byte data is returned.
98	DATE SENSE	Use to check the VCR's date data. The data is returned in order of month, day and year. During playback, the time data on the tape is returned.
Н.	TIME SENSE	Use to check the VCR's time date. The data is returned in order of hour, minute and second. During play, the time data on the tape is returned.
5	DEVICE TYPE	Use to check the device type. D:44h, V:55h, 6:36h, 0:30h
2	TAPE REMAIN SENSE	Use to check the tape remaining time. 3-byte data is returned showing the hour (ones place) and minutes (tens place and ones place).
DS	SSF DATA SENSE	Use to check the Super Scene Finder data.
De	PREROLL TIME SENSE	Use to check the preroil time, 2-byte data is returned showing the seconds (tens place and ones place).
20	STATUS SENSE	Use to check the status. Refer to the contents of the STATUS SENSE.
BG	CURRENT TC SENSE	Use to check the time code data. The data is returned in the order of hour, minute, second and frame.
60	CURRENT CTL SENSE	Use to check the CTL data. The uppermost digit shows plus or minus.
2	CURRENT TO UB SENSE	Use to check the user bits data. Data A from F is expressed with ASCII code 41h to 48h.
QQ	JVC STATUS SENSE	Use to check the status. Refer to JVC STATUS SENSE for details.
82	VTR IND	Use to check the VCR connection.

11 RS-232C INTERFACE

Setting (preset) commands

These commands activate various settings on the VCR. When a command is sent, the corresponding setting is activated.

Com	Commands	Description				
E0	TC DATA PRESET	Use to preset if command. Spe digits for each i transmitted, the uppermost digit Set the VCR's	the time secify to tem. item. item. pt.	Use to preset the time code data. To set, transmoonmand. Specify the time in order of hour, mit digits for each item. When EWTER (40h) is transmitted, the time code data can be specified uppermost digit.	Use to preset the time code data. To set, transmit the time data following this command. Specify the time in roled of hour, minula, escond and rame, using two digits for each item. When ENTER (4th) is transmitted before all digits have been transmitted, the time code data can be specified by entering digits from the uppermost digit. Set the VOTR (PEMOTE) switch to "PEMOTE".	this using two ave been
=	TC UB DATA PRESET	Use to preset the user bits.	the us	er bits.		
8	PRESOLL TIME PRESET	Use to set the command. Fire	prerol rst byte	I time. Specify this for ten place and	Use to set the preroll time. Specify this by transmitting 2-byte data following this command. First byte for ten place and second byte for one place.	ing this
E7	TIMER MODE SELECT	Use to select of corresponding	the cor	Use to select the counter mode. Follow corresponding to the counter mode.	Use to select the counter mode. Following this command, send data (1 byte) corresponding to the counter mode.	yte)
		High Lo	Low	Counter mode		
				5		
		(fixed)	2	CTL		
		L	5	UB		
끮	DATE PRESET	Use to set the month, day an	date.	Use to set the date. Following this command, send 6 month, day and year in order with two digits for each.	Use to set the date. Following this command, send 6-byte numeric data. Specify the month, day and year in order with two digits for each.	Specify the
8F	TIME PRESET	Use to set the	date.	Following this con	Use to set the date. Following this command, send 6-byte numeric data. Specify the	Specify the
		nour, minute a	es bu	nour, minute and second in order with two digits for each.	two digits for each.	

Contents of STATUS SENSE

When the STATUS SENSE (D7H) command is sent, the following data (5 bytes) is returned.

First byte

When the bit is 1			SHORT FF/REW During short FF or short REW	Recording is inhibited.	CASSETTE OUT There is nn cassette loaded.	Servo is locked.	Always 0	An error has occurred.
 Status	Always 1	Always 0	SHORT FF/REW	REC INHIBIT	CASSETTE OUT	SERVO LOCK	Undefined	ERROR
 Bit No.	2	9	ß	4	6	2	ŀ	0

Second byte

When the bit is 1	Video output is EE.	Audio 1 output is EE.	Always 0	Always 0	There is a problem with the VCR.	Condensation has formed in	the VCR.	Short FF at the tape beginning	Short REW at the tape end
Bit No. Status	VIDEO EE	AUD 1 EE	VIDEO MUTE	AUD 1 MUTE	WARNING	DEW		TAPE BEGIN	TAPE END
Bit No.	7	စ	ເດ	4	၈	CI		-	0

Third byte

	0	0					용	
When the bit is 1	The [TIMER] switch is set to "PLAY".	The [TIMER] switch is set to "REC".	Always 0	Always 0	Always 0	Always 0	The VCR is in the Search mode	Always 0
Status	TIMER PLAY	TIMER REC	Unused	Unused	Unused	Unused	SEARCH MODE	Unused
B# No. Status	7	ဖ	5	4	3	O2	-	0

When the bit is 1 The VCR is playing back a tape The VCR is rast-forwarding a tape. The VCR is rewinding a tape The VCR is in the Stop mode The VCR is in the Stop mode Casselle to being ejectled. The VCR is consequent	6	0
Inised	Inseed	
The VCR is recording on a tape	REC MODE	-
A cassette is being ejected.	EJECT	2
The VCR is on standby.	STANDBY MODE	6
The VCR is in the Stop mode	STOP MODE	4
The VCR is rewinding a tape.	REW MODE	2
tape.		
The VCR is fast-forwarding a	FF MODE	9
The VCR is playing back a tape.	PLAY MODE	7
When the bit is 1		Bif No.
	Dyte	

Fifth byte

When the bit is 1	The VCR temporarily stops.	Always 0	The VCR is shuttle-searching	in the forward direction.	The VCR is shuttle-searching	in the reverse direction.	Speed code 8	Speed code 2	Speed code 1	Speed code 0
Status	PAUSE MODE	Unused	SHUTTLE FWD		SHUTTLE REV		SPEED CODE 3	SPEED CODE 2	SPEED CODE 1	SPEED CODE 0
Bit No.		9	2		4		ဇ	2	-	0

Search speed table (corresponding speed only) Search speed Speed code (bit No.)

	STILL	0.1	0.2	0.3	-	2	20	10
ဇာ	0	0	0	0	0	0	0	-
2	0	0	0	1	-	1	-	0
-	0	ļ	-	0	0	+	-	0
0	0	0	-	0	-	0	-	400

11 RS-232C INTERFACE

Contents of JVC STATUS SENSE

When the STATUS SENSE (DDH) command is sent, the following data (4 bytes) is returned. First byte

	When the bit is 1			Always 0	Always 0	Always 0	JVC TABLE 2 is effective.	JVC TABLE 1 is effective.	The [REMOTE] switch is set to "LOCAL".
2	Status	Always 1	Always 0	Unused	DIMF	Unused	JVC TABLE 2	JVC TABLE 1	LOCAL
2	Bit No. Status	7	9	S	4	က	2	-	0

Second byte	byte	
Bit No. Status	Status	When the bit is 1
7	TC GENERATOR	The time code generator is in
		the TCG mode.
9	USERS BIT	The counter mode is set to the
		UB mode.
22	TIME CODE	The counter mode is set to the
		TC mode.
4	CTL PULSE	The counter mode is set to the
		CTL mode.
8	CTL	Always 0
	interpolation	
8	DROP FRAME	The current time code is set to the
		Drop Frame mode (U MODEL).
		Always 0 (E MODEL)
-	LTC	Always 0
0	Unused	

Third byte

d d	Bit No. Status	When the bit is 1
-		mode.
F	TC REGEN	The TCG is set to the REGEN
		mode.
-	TC EXTERNAL	Always 0
-	TC INSERT	Always 0
ال.	LED	
4	AUD 2 INSERT Always 0	Always 0
-	LED	
1	AUD 1 INSERT	Always 0
~	LED	
_	VIDEO INSERT Always 0	Always 0
_	LED	
*	ASSEM LED	Assemble mode

Fourth byte Bit No. | Status

When the bit is 1

	7	TBC PWB IN	Always 1
	9	TC PWB IN	Always 1
	5	DA3 INSERT LED	Always 0
	4	DA4 INSERT LED	Always 0
	3	AUTO MODE	Always 0
	2	nunsed	Always 0
	-	Unused	Always 0
-	0	Qunseq	Always 0

Error-related commands
This command is returned when transmitted data cannot be received normally by the VCR. A command to release the error status is also available.

Command	Description
020	ERROR: Returned when the VCR
	receives an invalid command after the
	second byte of the transmitted command.
	In this case, even though commands are
	sent continuously, no commands can be
	accepted except STATUS SENSE. To
	release this error mode, send the following
	commands.
41	CLEAR ERROR: Clears the last
	transmitted byte. Use this to release the
	error mode as well.
56	CLEAR: All commands are canceled. This
	is also used to release the error mode.
90	NAK: Returned when the VCR receives an
	undefined command for the first byte or a
	command specifying a function not
	available on the VCR. Releasing the error
	mode with the CLEAR command is not
	necessary. Just send a correct command.

* Usage example of CLEAR ERROR Specify the cue-up point at 1:10:10:25.

As this data cannot be specified for the data following the CUE UP WITH DATA, correct the data.

	_		8	
	25	8	8	S
	L	я	8	CI FAR FRR
Ħ		E	3	CLEA-
Mis-Input		R	8	
_	0 T	8	3	
	Ĺ	(18	
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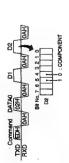
Menu switch setting command

ED MEMORY SW PRESET
Use this command to change the VCR's menu switches.
Transmit the data (3 bytes) corresponding to the menu
switch to be changed, following this command.

(e.g.)
Set No. 108 <VIDEO INPUT SELECT> menu switch to "COMPONENT".

"COMPONIENT".

Sea no be seen in the table on the right, the data corresponding to COMPONENT is DATA0 at 02, D2's bit No. 5 at 1 and bit No. 4 at 0.



Menu switch check command

D3 MEMORY SW SENSE

Use this command to check the VCR's menu switch setting. Following this command, transmit the data (DATA) corresponding to the menu switch to be checked. You can confirm the setting with the returned data (D1, D2).

(e.g.) Check the No. 108 <VIDEO INPUT SELECT> menu switch setting.

As can be seen in the table on the right, the data corresponding to DATA of the menu switch to be checked is QZ. You can confirm the setting with the values for bit No. 5 and 4 of the D2 returned data.



11 RS-232C INTERFACE

DATA0 D1/D2 Set value

Menu switch No. 502 20

Menu switch	Dettan	0.00	Cod scalars	දී	8	ĕ	- Gu	ng þý	sanjev	83
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			8		+	4	4	-		Т
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			EXTERNAL	\forall	+	+	4	I		-1
			VIDEO	7	+	-	4	_		0
		Ì	AUTO	7		-	4		-	_
090	8	20	IEEE1384	0	0	0	9	0	o	0
			RC232C	0		0	-		0	0
			IEEE1394+RS232C	0	0	_	0		o	0
			RS422A	0	ᅳ	0	₩		0	6
			MCCC+304, DC4/308	te	1.	4-	+-		c	1
			0.00	, 1,			+			T,
			JVC BUS	-		9	-		5	5
			JVC BUSHELLISM	-					9	_
			JWC BUS+RS232C	=		-			0	0
			JVC BUS+RS232C+1384	F	_	-			0	6
			WC BUSABS422A	-					c	6
			IVC DI IC . DC4224 . 1204	1.			9		c	Te
		2	And the second s	.†					3	Т
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306	91	8	12V		-	-	_			0
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For servicing See the service manual page 1-16 "1.7 WARNIGN CODES".

12 TROUBLESHOOTING

12-1 Warning indicators

If the unit malfunctions during operation, the built-in self-diagnostics system identifies the problem and displays a warning message on the monitor and/or the counter display. Also, the [AUTO OFF] indicator may be shown on the LCD. In this case, turn the power off and then on again to restore operation. If the [AUTO OFF] indicator appears again, the VCR may require repair or adjustment. Consult your local JVC dealer. The Pipe of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties. In this case, turn the main power (AC and DC power supplies) off, turn on again and check the operation.

On-screen display	Error contents	Operation	Solution
Counter display	-		
CONDENSATION DN DRUM The [DEW] indicator lights.	Condensation on the drum.	When a cassette is not loaded, the drum starts to rotate.	Wait for the drum to stop rotating, then load a cassette.
		When a cassette is loaded, the AUTO OFF mode is engaged and the operation stops.	Do not use the unit until the AUTO OFF mode is disengaged.
Frr 3200	Tape cannot be loaded.	Operations are possible.	Turn the power on again. In some cases, the tape may be damaged, so use a different tape. If the problem persists, consult your JVC dealer.
FAILURE UNLOADING	• Tape cannot be unloaded.		
Erry 100	The eject operation is abnormal.		
Frr 4200	The cassette housing is abnormal.	,	
Err 5605	The tape ends.		
Err5507	The tape is slack.		
END LEADER DETECTION	The tape end sensor is abnormal.		
BEGIN LEADER DETECTION Err 5802	The tape beginning sensor is abnormal.		
Err 700 1	The drum rotation stops.		
CAP MOTOR FAILURE	The capstan rotation stops.		

12 TROUBLESHOOTING

On-screen display Counter display	Error contents	Operation	Solution
SUP REEL FAILURE Err 7002~ 7203	The supply reel rotation is abnormal.	Operation stops. No operations are possible.	Turn the power an again. In some cases, the tape may be damaged, sn use a different tape. If the problem
TAKE UP REEL FAILURE	The takeup reel rotation is abnormal.		persists, consult your JVC dealer.
ErrB400	System controller reference signal failure.	Operation stops. No operations are possible.	Turn the power on again.
PCTAPE INHIBIT	A data tape for personal computer is used.	Operation continues.	Use a tape on which NTSC (U MODEL), PAL (E MODEL) signals are recorded.
LP inh	A tape recorded in the LP mode is played back.	Operation stops.	Use a tape recorded in the SP mode.
rECINHBIT	The cassette's safety slide is set to "SAVE". Copy-guarded signals are input.	Operation stops.	Set the safety slide to "REC". Copy-guarded signals cannot be recorded.
Hon PBEI	No signal is input to the [DV IN/OUT] connector. Copy-guarded signals are input.	Operation stops.	Input signals to the IDV IN/ OUT] connector. Copy-guarded signals cannot be recorded.
EE CHECK INHIBIT EE INH	When the IEEE 1394 input is selected, the EE check is performed.	Operation continues.	When the IEEE 1394 input is selected, the EE check cannot be performed.
ярю вые иннет Нав ил h	The cassette's safety slide is set to "SANE". The lape was recorded with the 48 kHz sampling rate. The No. 245 «SAMPLING BATE» menu switch is set to "48k". Audio dubbing was attempted on a tape recorded in the LP mode.	Operation stops.	Set the safety slide to "REC". 22 kHz sampling rate 32 kHz sampling rate 32 kHz sampling rate 32 kHz menu switch to "32K". Audio dubbing cannot be performed ont lapes recorded in the LP mode.
SSF INHIBIT 55F inh	SSF data error occurs.	Operation continues.	Use a tape on which SSF data has been properly recorded.
FAN MOTOR FAILURE	The fan motor stops.	Operation stops about 80 seconds after the fan motor stops (with the No. 397 <fan shutdown="" stop=""> menu switch set to "ENABLE").</fan>	Consult your nearest JVC dealer.
HEAD CLOU	The video head is clogged.	The operation continues.	Clean with a dedicated head cleaning tape. Refer to the separate enclosure, "Notes on the use of a cleaning tape".

43

12 TROUBLESHOOTING

12-2 Other problems

Symptoms	Causes	Action
The VCR's controls are not functioning.	 The [REMOTE] switch is set to "RE-MOTE". The No. 002 - The No. 002 - Switch is set to "ON". 	Set the [REMOTE] switch to "LOCAL". Set the No. 002 < OPERATION LOCK> menu switch to "OFF".
On-screen display does not come up.	The monitor is not connected to the [MONITOR OUT] connector. The No. 500 <on screen=""> menu switch is set to "OFF".</on>	Connect the monitor to the [MONITOR OUT] connection. Set the No. 500 <on screen=""> menu switch to "ON".</on>
Noise appears on parts of the playback picture.	• The heads are dirty.	Read the instructions on page 5 and clean the heads.
Tape counter does not run.	The counter does not run on a non- recorded section of the tape. The menu switch setting mode is engaged.	• Press the [MENU] button and restore the normal mode.

13 APPENDIX

13-1 Optional equipment

SA-K46 RS-232C interface board

With this board connected to this unit and a personal computer, you can control the VCR from a personal computer. Use a reverse-type cable. For installation and uninstallation, consult your JVC dealer.

RM-G30 wired remote control

This remote control allows you to control all basic VCR operations such as PLAY, RECORD, PAUSE, FF, etc.

/C video cables

These cables are used to transmit YC video signals.

The following types are available.

Length	3 m	5т	3 m	3m	5 m
Output	4-pin	4-pin	7-pin	4-pin	4-pin
Input	4-pin	4-pin	4-pin	7-pin	7-pin
Types	NC-G30U	NC-G50U	VC-G3030	VC-G2030	VC-G2050

VC-G8030U remote extended cable

This extended cable is for use with the RM-G800 remote Controllers. The cable length is 3 m.

14 SPECIFICATIONS

: AC 120 V (U MODEL), AC 220 – 240 V (E MODEL), 50/60 Hz, DC 12 V (10.5 V to 17 V)

Power

: 27 W (U MODEL) : 250 m.A (E MODEL) : (W) 212 mm x (H) 88 mm x (D) 325 mm (8-308" x 3-112" x 12-1316") : Approx. 3.6 kg (7.9 fbs.)

■ Dimensions

: 5°C to 40°C (41°F to 104°F) : -20°C to 60°C (-4°F to 140°F)

■ Weight
■ Temperature
Operating
Storage
■ Humidity
Operating

: 30% to 80% RH : MiniDV format MiniDV tape NTSC

:18.812 mm/s (SP mode) (U MODEL) :18.831 mm/s (SP mode) (E MODEL)

Signal format
 Usable tape
 Tape width
 Tape speed

Record/play

: 60 minutes (with an M-DV60ME tape, only in the SP mode) : Within 120 s (with an M-DV60ME

FF/rewind time

[Video]

Video signal
recording
format

recording (U MODEL) :8-bit, 13.5 MHz, 4.2:0 component recording (E MODEL) :8-bit, 13.5 MHz, 4:1:1 component

Video inputs

Analog composite : 1.0 V (ρ-ρ), 75 Ω
Analog Y/C : Y : 1.0 V (ρ-ρ), 75 Ω
C : 0.286 V (ρ-ρ), 75 Ω (U MODEL)
C : 0.286 V (ρ-ρ), 75 Ω (E MODEL)
Analog component: Y : 1.0 V (ρ-ρ), 75 Ω
F-γ/B-γ: 0.7 V (ρ-ρ), 75 Ω

: 1.0 V (p-p), 75 Ω

External sync

■ Video output

Analog composite: 1.0 V (p-p) (setup can be switched ONOPF with a menu switch), 75 Ω . Analog Y/C: 1.0 V (p-p) (setup can be switched ONOFF with a menu

C: 0.286 V (p-p), 75 fit (U MODEL) : 0.3 V (p-p), 75 ft (E MODEL) Y: 1.0 V (p-p) (setup can be switched ON/OFF with a menu switch), 75 D

Analog component:

switch), 75 Ω R-Y/B-Y: 0.7 V (p-p), 75 Ω

: 500 lines or more l Horizontal resolution

[Audio] ■ Audio signal

Frequency response

:-8 dBs, 10 kΩ, unbalanced :-67 dBs, 3 kΩ, unbalanced Audio output Audio input

:-8 dBs, 1 kΩ, unbalanced :- infinity to -17 dBs, 8 Ω, unbalanced Line Headphone

0 ± 3 dBs, low impedance, unbalanced [Time code]

Output

(Connectors) ■ RS-422 interface : D-sub 9-pin ■ JVC bus

■ Input/output: IEEE 1394

[DV interface]

: DIN 12-pin connector

AC cable # 1

Accessory

SA-K46U RS-232C interface board

Design and specifications subject to change without notice.

Dimensions (unit: mm)

recording format::16-bit, 48 kHz for two channels or 12-bit, 32 kHz PCM for four channels

: 20 Hz to 20 kHz (48 kHz, 16 bits)

Note: (U MODEL)

When setting menu switch No.108 [VIDEO INPUT SELECT] to EEE1394 even if menu switch No.125 [SET UP] is set to on position, set up signals will not be provided to DV output and analog output.

If you would like to provide set up signals when playback, set menu switch No.108[VIDEO INPUT SELECT] to LINE or Y/C or COMPONENT position (except IEEE1394). PRX47531

Precautions for Use of Head Cleaning Tape

Adhere to the following precautions when using the head cleaning tape.

- The tape runs for 10 seconds at a time in the PLAY mode. (The tape stops automatically.)
 - Do not use the tape more than four times at the most for each cleaning. Press the PLAY button after the cleaning tape is fully loaded.
 - The cleaning tape can be used four times.
- One time: One tape transport from the start of the rewound tape to the end of the tape.
- Use the following chart as a guide for periodical head cleaning.

Operating	Low temperature	Room temperature	High temperature 35°C to 40°C
environment	5°C to 10°C	10°C to 35°C	
Yardstick for use of cleaning tape	1 to 2 times	1 to 2 times	1 to 2 times
	every 5 hours	every 20 to 30 hours	every 5 hours

Note 1) When used in a low humidity environment (10% RH to 30% RH), head cleaning should be conducted at intervals half of those given in the above chart.

- indicator may remain on. In this case, let the tape run as the indicator will turn off after the Note 2) When an ME80 tape is used immediately after head cleaning, the VTR warning (head) tape has run for a while.
- Note 3) Use the cleaning tape in the room temperature (10°C to 35°C).
- Note 4) The cleaning tape case contains instructions for use of the cleaning tape. However, some of these instructions differ from the contents of this sheet. When using the cleaning tape, please follow the instructions of this sheet.

Vorsichtshinweise für die Verwendung des Kopfreinigungsbandes Deutser

Bitte beachten Sie bei der Verwendung des Kopfreinigungsbandes die folgenden Vorsichtshinweise.

- Das Band läuft jeweils 10 Sekunden lang in Wiedergabemodus (PLAY). (Das Band hält automatisch an.)
- Drücken Sie die Taste PLAY, nachdem das Reinigungsband vollkommen geladen worden ist.
 - Verwenden Sie das Band nicht mehr als maximal viermal für jede Reinigung.

Das Reinigungsband kann viermal verwendet werden. Einmat: Ein Bandtransport vom Anfang des zurückgespulten Bandes zum Bandende.

Verwenden Sie das folgende Diagramm als Anhalt für periodische Kopfreinigung.

Betriebsumgebung	Niedrige Temperatur	Raumtemperatur	Hohe Temperatur
	5°C bis 10°C	10°C bis 35°C	35°C bis 40°C
Maßstab für die Verwendung	Ein- bis zweimal	Ein- bis zweimal	Ein- bis zweimal
des Reinigungsbandes	alle 5 Stunden	alle 20 bis 30 Stunden	alle 5 Stunden

Hinweis 1) Bei Verwendung in einer Umgebung mit niedriger Luftfeuchtigkeit (10% bis 30% relativ) solite Kopfreinigung doppelt sa oft wie im obigen Diagramm angegeben durchgeführt

Fall das Band laufen, da die Anzeige ausgeht, nachdem das Band einige Zeit gelaufen Hinweis 2) Wenn direkt nach dem Kopfreinigen ein ME80-Band verwendet wird, so bleibt die Wamanzeige für den Videorekorder (Kopf) möglicherweise an. Lassen Sie in diesem

Hinweis 3) Verwenden Sie das Reinigungsband bei Zimmertemperatur (10°C bis 35°C).

Hinweis 4) Das Gehäuse des Reinigungsbandes enthält Anweisungen für die Verwendung des Reinigungsbandes. Einige dieser Anweisungen unterscheiden sich jedoch vom Inhalt dieses Blattes. Bitte befolgen Sie bei der Verwendung des Reinigungsbandes die Anweisungen auf diesem Blatt.

Précautions lors de l'utilisation de la cassette de nettoyage de têtes Français

Respectez les précautions suivantes lors de l'utilisation de la cassette de nettoyage de

- La cassette défile pendant 10 secondes chaque fois en mode de lecture. (La bande s'arrête automatiquement.)
 - Appuyez sur la touche de lecture (PLAY) après avoir inséré la cassette de nettoyage. N'utilisez pas la cassette plus de quatre fols pour un nettoyage.
- La bande de la cassette de nettoyage peut être utilisée quatre fois. Une fois correspond au défilement de la bande depuis le début de la bande rebobiné jusqu'à la fin de la bande.

Utilisez le tableau suivant comme un guide pour les nettoyages de têtes périodiques.

Température	Basse température	Température de la pièce	Haute température
de fonctionnement	5°C à 10°C	10°C à 35°C	35°C à 40°C
Étalon pour l'utilisation de	1 à 2 fois	1 à 2 fois	1 à 2 fois
la cassette de nettoyage	toutes les 5 heures	toutes les 20-30 heures	toutes les 5 heures

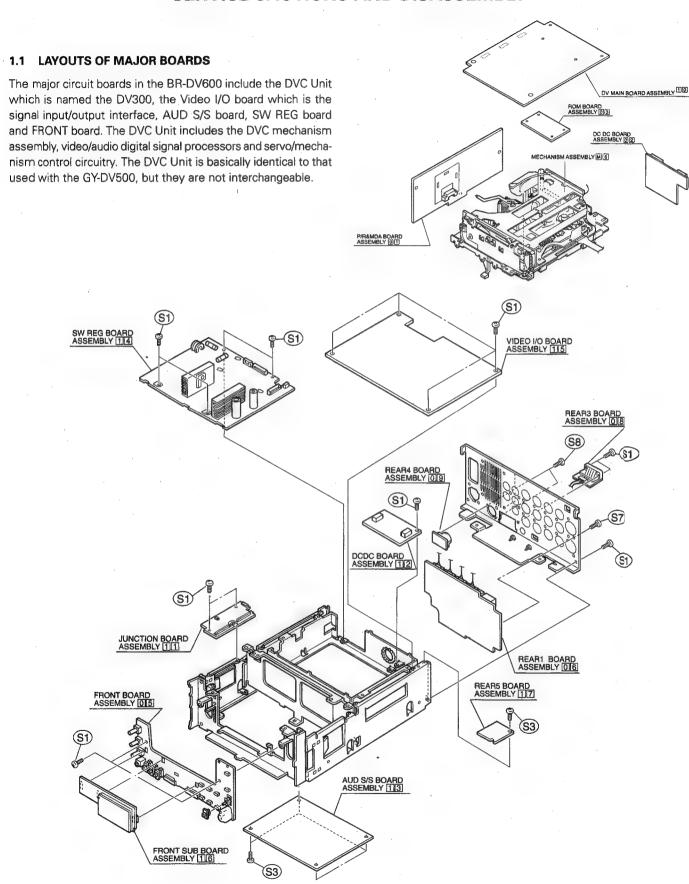
Remarque 1) Lors de l'utilisation de la cassette dans un environnement humide (10% HR à 30% HR), le nettoyage des têtes doit être réalisé à des intervalles correspondant à la

moitié de ceux donnés dans le tableau ci-dessus.

bande défiler et l'indicateur s'éteindra après que la bande a défilé quelques instants. 'indicateur d'avertissement VTR (têtes) peut rester allumé. Dans ce cas, laissez la Remarque 2) Si une cassette ME80 est utilisée immédiatement après un nettoyage de têtes,

l'outefois, certaines de ces instructions diffèrent du contenu de la présente feuille. Lors de l'utilisation de la cassette, veuillez suivre les instructions de la présente Remarque 4) La cassette de nettoyage comprend les instructions d'utilisation de la cassette. Remarque 3) Utilisez la cassette de nettoyage à température ambiante (10°C à 35°C).

SECTION 1 SERVICE CAUTIONS AND DISASSEMBLY



1.2 REMOVING THE MAJOR PARTS

1.2.1 Disassembly Flowchart

The following flowchart shows the disassembly procedure to be used when performing a diagnosis of the board assemblies or mechanisms. Be sure to unplug the power cord before proceeding with a disassembly or assembly.

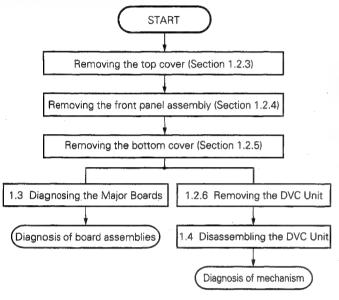


Fig. 1-2-1

1.2.2 Replacing the Fuses

CAUTION -

Before replacing the fuses, be sure to investigate what caused the fuse to blow and repair it.

For the protection and safety of the equipment, always replace fuses with the specified ones.

- (1) Unplug the power cord from the power outlet before proceeding to replace the fuse.
- (2) Remove the top cover (Section 1.2.3).
- (3) Remove the Video I/O board (Section 1.3.2).
- (4) Remove the shield plate from the REG board (Section 1.3.4).
- (5) Fuses F101 and F102 are located on the SW REG board.

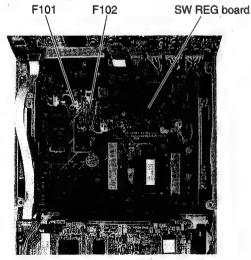


Fig. 1-2-2

1.2.3 Removing the Top Cover

- (1) Remove the 4 screws (S1).
- (2) Remove the top cover by sliding it in the direction of the

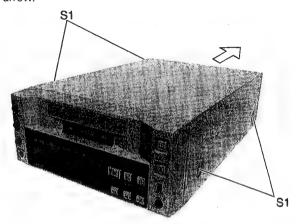


Fig. 1-2-3

1.2.4 Removing the Front Panel assembly

 Remove the front panel assembly by disengaging the 4 hooks (L1).

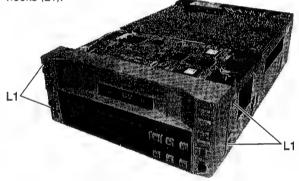


Fig. 1-2-4

1.2.5 Removing the Bottom Cover

(1) Remove the 3 screws (S2).

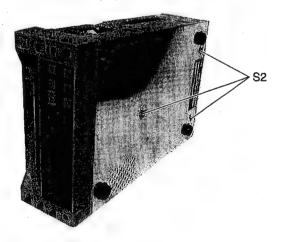


Fig. 1-2-5

1.2.6 Removing the DVC Unit

- (1) Remove the 4 screws (S3).
- (2) Disconnect the wire connected to CN801 of the DV MAIN board.
- (3) The DV MAIN board and the junction board are connected via CN1 and CN2. Disconnect these connectors and remove the boards by lifting them upward.

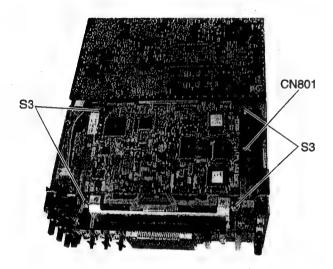


Fig. 1-2-6

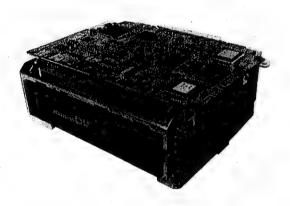


Fig. 1-2-7 DVC Unit

1.3 DIAGNOSIS OF MAJOR BOARDS

1.3.1 Adjustment & Diagnosis of the DV MAIN Board and Mechanism

- (1) Remove the 4 screws (S4) (black) from the DV MAIN board.
- (2) Remove the 2 screws (S2) from the Junction board.
- (3) Stand both the DV MAIN and Junction boards as shown in Fig. 1-3-2 and diagnose them.

CAUTION -

During diagnosis and assembly, make sure that the DV MAIN board and the Junction board are connected correctly via the connectors.

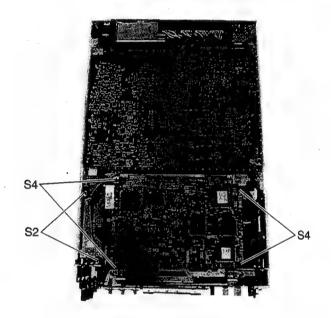


Fig. 1-3-1

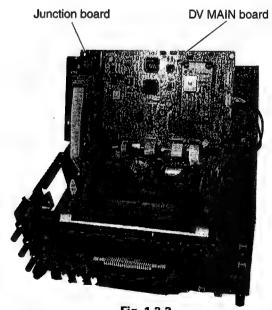


Fig. 1-3-2

1.3.2 Diagnosing the Video I/O Board

- (1) Remove the 4 screws (S2).
- (2) Stand the board on the chassis slit as shown in Fig. 1-3-4 during diagnosis.

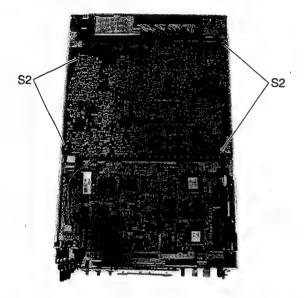


Fig. 1-3-3

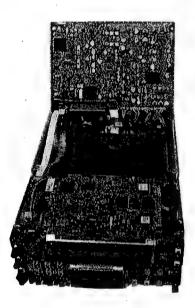


Fig. 1-3-4

1.3.3 Diagnosing the AUD S/S Board

- (1) This board can be diagnosed by removing the bottom cover as described in 1.2.5.
- (2) To diagnose the back of the board, remove the 4 screws (S2).

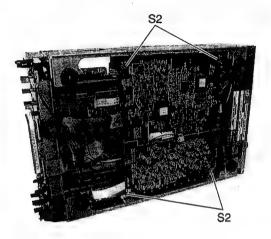


Fig. 1-3-5

1.3.4 Diagnosing the SW REG Board

- (1) Remove the screw (S5) and remove the shield cover by sliding it in the direction of the arrow.
- (2) Remove the screw on the DCDC board. Then, stand the DCDC board upright and it may be diagnosed.
- (3) To diagnose the back of the REG board, remove the 4 screws (S5).

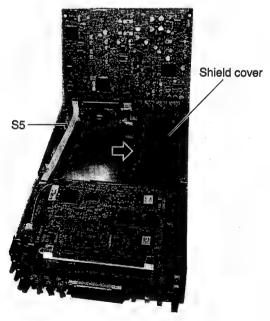


Fig. 1-3-6

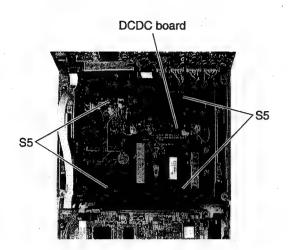


Fig. 1-3-7

1.3.5 Diagnosing the FRONT Board

(1) Remove the 2 screws (S2).



Fig. 1-3-8

1.3.6 Diagnosing the FRONT Sub-Board

- (1) The FRONT sub-board is connected to the FRONT board via CN1, CN2 and CN3. Pull the sub-board toward the front to disconnect the connectors and remove the sub-board from the Front board.
- (2) To supply power to the FRONT sub-board, attach an extension board as shown in Fig. 1-3-9.

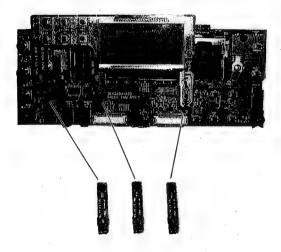


Fig. 1-3-9

Extension board: PRX47372A (3 sets)

1.3.7 Diagnosing the REAR 1 Board

- (1) Remove the screw (S5) from the REAR 5 board.
- (2) Remove the 2 screws (S2) and then remove the rear panel by sliding it upward.

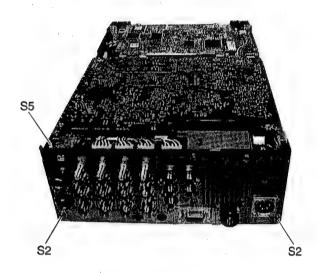


Fig. 1-3-10

1.4 DISASSEMBLY OF THE DVC UNIT

The DVC unit incorporated in the unit can be disassembled as described below. Note that the following description deals only with the method of removing the DVC unit from the VCR unit.

1.4.1 Disassembling the Front Part of the DVC Unit

- (1) Remove the DVC unit from the VCR (see section 1.2.6).
- (2) Remove the DV MAIN board.
- (3) Remove the 2 screws ① and remove the stay on the front cover. The cover of the cassette insertion slot will come out together with it.

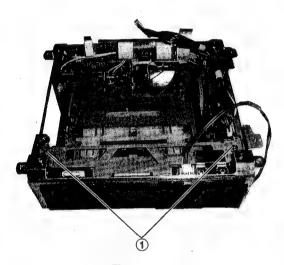


Fig. 1-4-1(1)

(4) Remove the 2 screws 2 and remove the front stay.

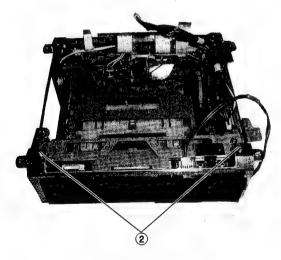


Fig. 1-4-1(2)

1.4.2 Disassembling the Rear Part of the DVC Unit

(1) Remove the 2 screws (3) and remove the rear side stay.

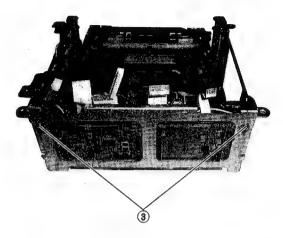


Fig. 1-4-2(1)

(2) Remove the 2 screws (4) and remove the active head cleaner. During this operation, be careful not to apply excessive force to the wire that is connected between the active head cleaner assembly and CN609 on the PR & MDA boards.

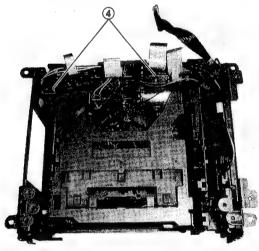


Fig. 1-4-2(2)

(3) Remove the 2 screws (5) and remove the side stays.

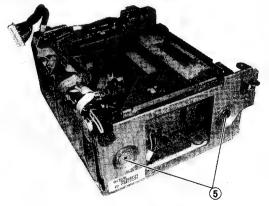


Fig. 1-4-2(3)

- (4) Insulators (blue) are attached to the retaining screws. Be sure to attach the insulators when re-assembling the side stays.
- (5) The side stays to both sides are attached in the same way. Remove the 2 screws (6) and remove the side stays.

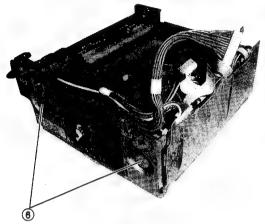


Fig. 1-4-2(4)

(6) After removing the rear stays and side stays (left and right), remove the 2 screws 7 then remove the PR & MDA board. When removing the PR & MDA boards, be careful not to damage the wires and FFCs connecting them to the mechanism assembly housing motor and power supply board.

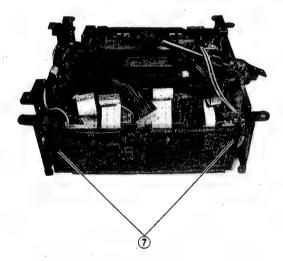


Fig. 1-4-2(5)

1.4.3 Removing the Cassette Housing Assembly

(1) Remove the 2 screws (6) and remove the cassette housing assembly.

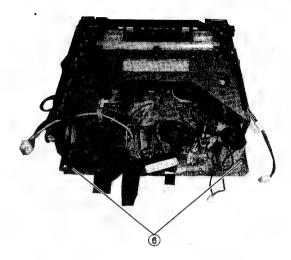


Fig. 1-4-3

1.4.4 Removing the Mechanism Assembly

(1) Remove the 3 screws (3). This allows the mechanism assembly to be removed from the stays When it is required to disassemble the mechanism unit itself, see SECTION 2.

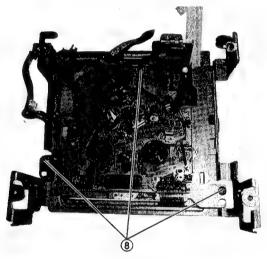


Fig. 1-4-4(1)

(2) When the remove the mechanism unit completely, also remove the connector (A) from the rear.

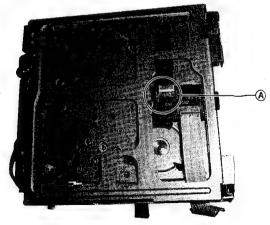


Fig. 1-4-4(2)

1.5 TAPE EJECTION IN CASE OF EMERGENCY

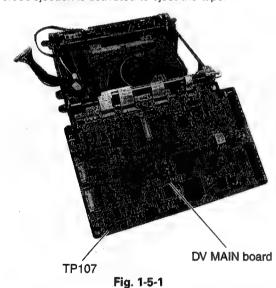
When the cassette tape cannot be ejected normally, take it out by the following methods.

1.5.1 Tape Ejection Using Forced Eject Mode (Short-circuiting of Internal TP)

GY-DV500 is provided with a compulsory eject mode for use in case the button operations are not accepted due to a malfunction of the mechanism control circuitry. When an attempted operation of the operation buttons is not accepted, set the compulsory eject mode as described below before removing the tape.

CAUTION -

- This mode is effective only when the electrical and mechanical systems of the mechanism unit are normal and a tape ejection operation is not accepted due to a problem of the electrical system.
- If there is a problem in the mechanical system of the unit, this mode may be ineffective. If compulsory ejection is performed in such a case, the tape could be damaged or cut.
- (1) Remove the Top cover (see section 1.2.3).
- (2) With the power supply on, short-circuit TP107 on the DV MAIN board with the GND using a wire, etc.
- (3) Forced ejection is activated to eject the tape.



1.5.2 Tape Ejection without Using the Forced Eject Mode

Activate the loading motor by applying DC voltage to its two terminals.

NOTE

When a forced ejection is not accepted because the loaded cassette tape cannot be ejected due to a fault in the electrical system or because of some problem in the mechanism unit, eject the tape by using the following procedure.

However, as this mode drives the loading motor, it assumes that the mechanical system is operating normally.

- (1) Turn off the power supply to the unit.
- (2) Flip open the DV MAIN board to expose the mechanism (see section 1.3.1).

(3) Apply 3 V DC to the electrodes at the top of the loading motor (red wire to + pole, brown wire to - pole) to unload the tape. Unload it little by little because it could be damaged or contaminated by grease if the pole base assemblies are returned completely beyond the position of the tape.

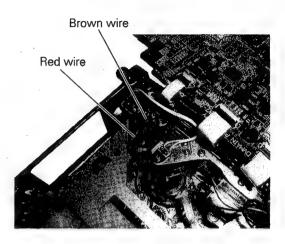


Fig. 1-5-2(1)

- (4) If the tape slackens, take it up by rotating the shaft at the top of the capstan motor in the direction of the arrow using a sharp-tipped object (chip IC replacement tool, etc.).
- (5) Repeat steps (3) and (4) above until the tape is taken up completely.
- (6) After confirming that the tape has been taken up completely, rotate the gear of the cassette housing assembly in the direction of the arrow in order to eject the cassette tape.

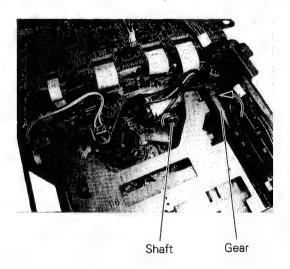


Fig. 1-5-2(2)

1.5.3 Manual Tape Ejection

If the loading motor cannot be run by the procedure outlined in section 1.8.2, the mechanism may be defective. When the loading motor is defective, remove the tape as described below.

- (1) Remove the DVC unit from the main unit. See section 1.2.6 for the removal method.
- (2) After removing the DVC unit, remove the DV MAIN board.
- (3) Remove the 2 screws and remove the active head cleaner assembly (see section 1.4.2).
- (4) Remove the side cover to easy operation (see section 1.4.2).
- (5) Remove the 2 screws and remove the rear panel from the side of the PR & MDA board.
 - Carefully unplug the wires so as not to damage them, then remove the PR & MDA board (see section 1.4.2).

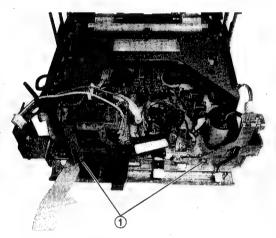


Fig. 1-5-3(1)

(6) Remove the 2 screws 1 and remove the active head cleaner stay.

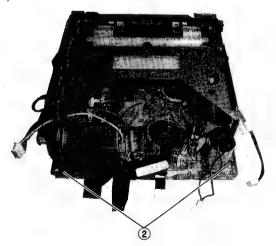


Fig. 1-5-3(2)

- (7) Loosen the 2 screws ② so that the cassette housing is separated freely.
- (8) Remove the 4 screws 3 and remove the loading motor.

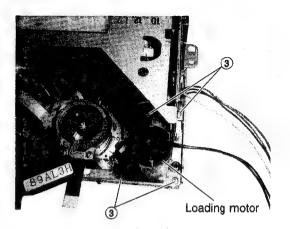


Fig. 1-5-3(3)

(9) Unload the pole base assemblies by rotating the gear shown in the figure in the direction of the arrow.

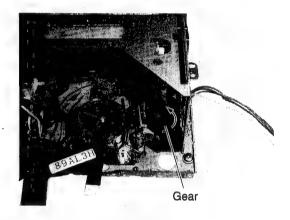


Fig. 1-5-3(4)

- (10) The pole base assemblies should be unloaded little by little. If they are returned completely beyond the position of the tape, the tape may slacken and become lamaged or stained by grease.
- (11) If the tape slackens, take it up by rotating the shaft on the top of the capstan motor in the direction of the arrow using a sharp-tipped object (chip IC replacement tool, etc.) (see section 1.5.2-(4)).
- (12) Repeat steps (9) and (10) above until the tapeis taken up completely.
- (13) After confirming that the tape has been taken up completely, tighten the cassette housing retaining snews which were loosened in step (6).
- (14) Attach and clamp the cassette housing again, then rotate the gear of the housing assembly in the direction of the arrow to eject the cassette tape in the same way as in section 1.5.2-(6).

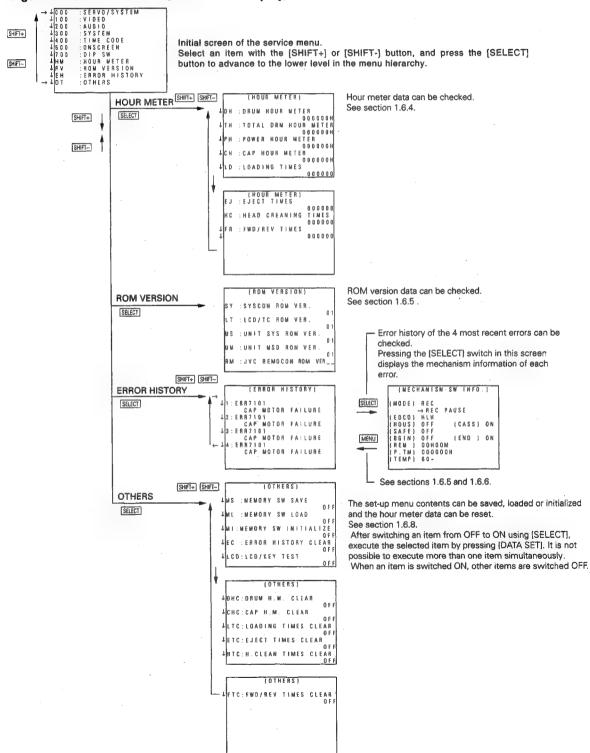
1.6 MENU SWITCHES

1.6.1 Displaying the Menu Switches

When the menu button is pressed, the menu switches which can be set by the user are output at the MONITOR OUT signal and on the counter display (for the contents of the setup menu, refer to page 18 of the instruction manual). Then, without loading a tape, press the [STOP] and [EJECT] buttons simultaneously to display the menu switches including the service menu. When a menu item has been changed and it is required to save it, press the [SET] button. "DATA SET" will blink on the counter display and the set returns to the normal mode.

To return to the normal set-up menu, set the Operate switch to OFF temporarily.

1.6.2 Configuration of Service Menu (Monitor Out Display)



1.6.3 Contents of the User and Service Menu

- CAUTION

The Initial setting is that which is set during menu switch initialization.

Group	Item	Setting	Counte	er Display	Initial Setting	Contents
000 SERVO/	002: OPERATION LOCK	ON OFF	002	-00 -01	OFF	User setup menu (See instruction manual page 18.)
SYSTEM	003: SYNC SELECT	EXTERNAL AUTO	003	-01 -03	AUTO	User setup menu (See instruction manual page 18.)
	050: REMOTE SELECT (When the SP-K41 is installed the display is changed from "RS422A" to "RS232C".	IEEE 1394 RS422A IEEE 1394+RS422A JVC BUS JVC BUS+IEEE1394 JVC BUS+RS422A JVC BUS+RS422A+1394	050	-01 -04 -05 -08 -09 -12	JVC BUS+RS422A+1394	User setup menu (See instruction manual page 18.)
	051: ERR RATE THRESHOLD	4000 8000 12000 NOTHING	OS I	-00 -01 -03	8000	Head clog warning threshold level selection. The value is the error rate with viterbi ON. Lowering the threshold level (increasing the value) will result in a margin decrease until block noise is appeared.
	080: BATTERY SHUTDOWN V	10.5-12.0V (0.1Vstep)	080	-00 { - 15	10.5V	Battery shutdown voltage setting.
	081: BATTERY ALARM V	10.5-12.0V (0.1Vstep)	08 /	-00 } - 15	11.0V	Battery alarm detection voltage setting.
100 VIDEO	108: VIDEO INPUT SELECT	LINE Y/C COMPONENT IEEE1394	108	-00 -0 1 -02 -03	LINE	User setup menu (See instruction manual page 18.)
	125: SET UP (U-Model only)	OFF ON	125	-00 -01	ON	User setup menu (See instruction manual page 18.)
200 AUDIO	212: AUDIO OUT AT SEARCH	OFF ON	515	-00 -01	ON	User setup menu (See instruction manual page 19.)
	214: V. FADE	OFF ON	214	-00 -01	ON	User setup menu (See instruction manual page 19.)
	245: SAMPLING RATE	32K 48K	245	-00 -01	48K	User setup menu (See instruction manual page 19.)
300 SYSTEM	300: DIRECT EJECT	OFF ON	300	-00 -01	ON	Direct ejection setting. ON: Direct ejection enabled. OFF: Direct ejection disabled.
	304: REC DISABLE	ENABLE DISABLE	304	-00 -01	ENABLE	REC inhibition setting ENABLE: Recording is possible on cassetes with tab. DISABLE: Recording is inhibited under any condition.
	305: REC REPEAT	OFF ON	305	-00 -01	OFF	FULL REPEAT setting during REC OFF: REC FULL REPEAT does not occur. ON: REC FULL REPEAT occurs
	306: LONG PAUSE DISABLE	ENABLE DISABLE	306	-00 -01	ENABLE	ENABLE: Long pause is canceled in a certain period (set with Menu: 307). DISABLE: Long pause is not cat celed.
	307: LONG PAUSE TIME	1 SEC 10 SEC 30 SEC 1 MIN 2 MIN 3 MIN 4 MIN 5 MIN	301	-00 -01 -02 -03 -04 -05 -06	5 MIN	Long pause time setting. Limited to 3 min. when the internal temperature of the VCR is low.
	311: AUTO PLAY	SHORT FF PLAY	311	-00 -01		User setup menu (See instruction manual page 18)
	312: AUTO REW	OFF ON	312	-00 -01	OFF	User setup menu (See instruction manual page 19)

300	315: LOCAL FUNCTION	EJT/STP	3 15	-00	EJT/STP	Setting of VCR buttons accepted in remote mode
SYSTEM		PLY/FF/REW/EJT/STP		-01		EJT/STP: Only EJECT and STOP are accepted. PLY/FF/REW/EJT/STP: PLAY, FF, REW, EJECT and
		ALL ENABLE		-02		STOP are accepted.
		ALL DISABLE		-03		ALL ENABLE : All buttons are accepted. ALL DISABLE : No button is accepted.
	316: LOCAL COM FUNCTION	ALL DISABLE	3 16	-00	ALL DISABLE	Setting of remote control commands accepted
		EJT/STP		-0 1		in local mode ALL DISABLE : All commands inhibited. EJT/STP : Only EJECT and STOP are accepted.
	336: NTSC/ PAL	NTSC PAL	336	-00 -01	NTSC (U-Model) PAL (E-Model)	System setting (Switching prohibited)
	353: EDIT ADJUST	0F	353	-00 ≀ -07	0F	User setup menu (See instruction manual page 19.)
	360: AUTO REW AT TIMER	OFF ON	360	-00 -01	OFF	User setup menu (See instruction manual page 19.)
	363: CONTROLLER SELECT	TYPE1 { TYPE8	363	-00 \ 00	TYPE1	User setup menu (See instruction manual page 19.)
	396: BATTERY SELECT	12V 13.2V 14.4V	396	-00 -01 -02	12V	User setup menu (See instruction manual page 19.)
	397: FAN STOP SHUT DOWN	ENABLE DISABLE	397	-00 -01	ENABLE	User setup menu (See instruction manual page 20.)
400 TIME CODE	403: REGEN MODE	TC+UB TC UB	403	-00 -01 -02	TC+UB	The REGEN source of TCG setting TC+UB: Set the TC and UB to REGEN TC: TC only UB: UB only
	407: PHASE CORRECTION	OFF ON	407	-00 -01	ON	Phase correction bit setting
	414: TCG SELECT	PRESET REGEN	4 14	00 -01	REGEN	User setup menu (See instruction manual page 20.)
	415: TCG MODE	FREE RUN REC RUN	4 15	-00 -01	REC RUN	User setup menu (See instruction manual page 20.)
	416: NON DROP/DROP (U-Model only)	DROP NON DROP	4 16	-00 -01	DROP	User setup menu (See instruction manual page 20.)
500 ON	500: ON SCREEN	OFF ON	500	-00 -01	ON	User setup menu (See instruction manual page 20.)
SCREEN	501: CHARACTER H. POSITION	0–8	50 i	-00 } 08	0	User setup menu (See instruction manual page 20.)
	502: CHARACTER V. POSITION	0–11	502	-00 } -11	. 0	User setup menu (See instruction manual page 20.)
	504: INFORMATION SELECT	TIME MODE+TIME	504	-00 -01	MODE+TIME	User setup menu (See instruction manual page 20.)
	505: REMAIN ENABLE	OFF ON	505	-00 -01	OFF	User setup menu (See instruction manual page 20.)
	509: WARNING MESSAGE	OFF ON	509	-00 -01	ON	Selection whether warning messages are displayed (if warning detection is executed)
, k.	512: MUTING ALARM MESSAGE	ON OFF	5 12	-00 -01	OFF	Selection whether alarm messages are output ON : Alarm messages are muted. OFF : Alarm messages are output.
	514: TIME SELECT	DATE CLOCK DATE+CLOCK TC	5 14	-00 -01 -02 -03	TC	User setup menu (See instruction manual page 20.)
	515: CALENDAR SELECT	JAPAN USA EUROPE	5 15	-00 -01 -02	USA (U-Model) EUROPE (E-Model)	EUROPE : Day/Month/Year
	516: DISPLAY SELECT	TC CLOCK	5 16	-00 -0.1	TC	User setup menu (See instruction manual page 20.)
700 DIP SW	700: DIP SWITCH-0	OFF ON	םמר	-00 -01	OFF	Switching inhibited. Must always be OFF
	715: DIP SWITCH-15		7 15	-00 -01		

1.6.4 HOUR METER

This screen allows the data of hour meters to be checked.

Item	Counter Display	Description	Max. Display Hours/Count
DH : DRUM HOUR METER	dH*****	Displays the drum rotation hours.	999999H
TH: TOTAL DRM HOUR METER	EH*****	Displays the total drum rotation hours. This data cannot be reset.	999999H
PH : POWER HOUR METER	PH*****	Displays the power ON hours. This data cannot be reset.	999999H
CH : CAP HOUR METER	cH*****	Displays the capstan motor rotation hours.	999999H
LD : LOADING TIMES	Ld*****	Displays the loading count.	999999TIMES
EJ : EJECT TIMES	EJ*****	Display the ejection count.	999999TIMES
HC : HEAD CLEANING TIMES	Hc*****	Displays the active cleaning head operation count.	999999TIMES
FR: FWD/REV TIMES	Fr*****	Displays the forward or reverse operation count	999999TIMES

^{*****} are the figures of time (or count).

1.6.5 ROM VERSION

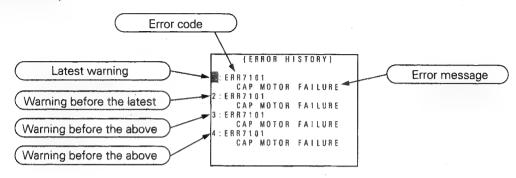
The ROM versions can be confirmed.

Item	Counte	er Display	Board Name Symbol No.	Remark
SY : SYSCON ROM VER.	59	**	AUD S/S board IC513	PLSL1069-V1-**
LT : LCD/TC ROM VER.	LE	**	FRONT board IC13	PLSL1070-V1-**
US : UNIT SYS ROM VER.	U5	**	DV MAIN board IC101	MN102F1617HL-**
UM : UNIT MSD ROM VER.	<i>υ</i> Π	**************************************	DV MAIN board, IC401 ROM board, IC1 (The MSD μCOM program is written inside IC401 and in ROM board IC1.)	M31020EAVP-*** M27W102-80N6-**
RM: JVC REMOCON ROM VER	rΠ	**	ROM version of the remote control unit con	nnected through the JVCbus.

^{**} is the version display (lower 2 digits).

1.6.6 ERROR HISTORY

This screen allows the history of the 4 most recent errors to be checked.



1.6.7 MECHANISM SW INFO

This screen allows the mechanism mode at each error to be displayed.

```
(MECHANISM SW INFO.)

(MODE) REC

→REC PAUSE

(EDCD) HLH

(HOUS) OFF (CASS) ON

(SAFE) OFF

(BGIN) OFF (END ) ON

(REM ) OOHOOM

(P.TM) 000000H

(TEMP) HIGH
```

Item	Description	Input Pin	Display
(MODE)	Mode at the moment of VCR error & mode immediately before.		PLAY, STILL, REC, REC PAUSE, NO CASSETTE, EJECT, STNDBY-ON, FF, REW, SHTL, STILL, SHTL X10, SHTL X-10
(ECOD)	Rotary encoder output.	DV MAIN board IC401 Pin 44 → CAM0 Pin 45 → CAM1 Pin 46 → CAM2	Shows H or L according to the mechanism position. Rotary encoder terminal (ENCD) H L H CAM0 CAM1 CAM2
(HOUS)	Cassette housing switch status.	DV MAIN board IC401 pin 27	ON : Housing inserted/ejected status OFF : Housing operating status
(CASS)	Cassette switch status.	DV MAIN board IC401 pin 32	ON : Cassette tape inserted OFF : Cassette tape not inserted or during insertion /ejection
(SAFE)	REC safety switch status.	DV MAIN board IC401 pin 47	ON : Non-recordable tape inserted, cassette tape not inserted or during insertion /ejection OFF : Recordable tape inserted
(BGIN)	Tape begin sensor status.	DV MAIN board IC401 pin 126	ON: Tape leader section detected OFF: Magnetic tape section detected
(END)	Tape end sensor status.	DV MAIN board IC401 pin 125	ON: Tape leader section detected OFF: Magnetic tape section detected
(REM)	Remaining tape at the moment of error.		Remaining tape time
(P.TM)	POWER HOUR METER data at the moment of error.	_	POWER HOUR METER time
(TEMP)	Set's internal temperature at the moment of error	DV MAIN board IC101 pin 75	UNDER : under 10°C NORMAL : 10 to 40°C HIGH : 40 to 60°C OVER : over 60°C

1.6.8 OTHERS

This screen allows the setup menu to be saved temporarily, loaded or initialized.

To execute an item, switch it from "OFF" (displayed as "00") to "ON" (displayed as "01") with the [SELECT] button, then press the [DATA SET] button (excluding hour meter). As switching an item "ON" switches other items automatically "OFF", it is not possible to execute more than one item simultaneously.

ltem	Counter	Display	Factory Default	Description
MEMORY SW SAVE	5/1	00	OFF	Saves the data set with the setup menu.
MEMORY SW LOAD	LП	00	OFF	Loads the data set for the setup menu.
MEMORY SW INITIALIZE	Π,	00	OFF	Initializes the setup menu data to the initial setting. The hour meters are not reset.
EDDOD HIGTORY OF FAR		00	OFF	Cleare the array history
ERROR HISTORY CLEAR	Ec	00	OFF	Clears the error history.
LCD/KEY TEST	Lcd	00	OFF	For use in the Operation key LED lighting check. When "START" is set and the [DATA SET] button is pressed, "PERFORM" is displayed in the MONITOR OUT and LCD display and the set enters the key test mode. In this mode, pressing any operation key lights the corresponding LED and an indication on the display. Pressing a key does not cause the VCR to act. To exit from the key test mode, change the setting from "START" to "STOP" and press the [DATA SET] button. "PERFORM" is displayed in the MONITOR OUT and LCD display and the set returns to the normal mode.
DRUM H.M. CLEAR	dHc	00	OFF	Resets the drum hour meter.
CAP H.M. CLEAR	сНс	00	OFF	Resets the capstan hour meter.
LOADING TIMES CLEAR	L7c	00	OFF	Resets the loading count.
EJECT TIMES CLEAR	Ε7c	00	OFF	Resets the ejection count.
H. CLEAN TIMES CLEAR	Н7с	00	OFF	Resets the head cleaning count.
FWD/REV TIMES CLEAR	F7c	00	OFF	Resets the forward/reverse operation count

1.7 WARNING CODES

If trouble occurs during operation, the set conducts self-diagnostics of the cause and shows the result in the on-screen display and counter display.

1.7.1 Warning Errors

Error Details Counter display On-screen display	VCR Operation	Cause	Detection Method	Error History O: Recorded ×: Not recorded
Condensation on the drum "DEW" mark lit CONDENSATION ON DRUM	Operation stops if cassette is loaded. If there is no cassette loaded, the drum continues rotation. Operations are accepted when dew has evaporated.	Condensation of dew.	Voltage at pin 124 of DV MAIN board IC401 is checked. DEW ON: >2.4 V DC DEW OFF: <1.8 V DC	×
Loading failure Err 3200 FAILURE LOADING	AUTO OFF	Failure in loading motor, rotary encoder or mechanism.	Rotary encoder outputs at pins 44, 45 and 46 of DV MAIN board IC401 are checked, and error is identified when loading does not complete in 4 sec.	0
Unloading failure Err 3300 FAILURE UNLOADING	When unloading fails, cassette is loaded again then unloading is retried. If this fails again, AUTO OFF occurs.		Rotary encoder outputs at pins 44, 45 and 46 of DV MAIN board IC401 are checked, and error is identified when unloading does not complete in 4 sec.	0
Ejection failure Err 4100 CASSETTE EJECT FAILURE	AUTO OFF	Defect in cassette housing switch or cassette housing motor.	When ejection end (pin 27, DV MAIN board IC401) does not occur in 3 sec. after start of ejection.	0
Intake failure Err 4200 HOUSING FAILURE	AUTO OFF	Defect in cassette housing switch or cassette housing motor.	When housing switch (pin 27, DV MAIN board IC401) is not detected in 3 sec. after start of intaking.	0
Begin/End sensor simultane- ous detection Err 5605 TAPE DEFECTIVE	AUTO OFF	Tension error or mechanism defect lead- ing to tape cutting. Cassette was inserted while internal tape is slack, etc.	When both tape beginning sensor (pin 126, DV MAIN board IC401) and tape end sensor (pin 125, DV MAIN board) outputs go Low simultaneously.	×
Tape cut during loading Err 5607 TAPE DEFECTIVE	AUTO OFF	Tape is cut during loading. Mode transition error of mechanism.	When SUP or TU reel FG is not detected during loading.	×
End detected after short REW Err 5702 END LEADER DETEC- TION	AUTO OFF	Tape is cut after end of tape has been detected. Mode transition error of mechanism.	When tape end sensor (pin 125, DV MAIN board IC401) remains Low level after 3 sec. of tape transport by short REW after detection of tape end in PLAY mode, etc.	
Beginning detected after short FF Err 5802 BEGIN LEADER DETECTION	AUTO OFF	Tape is cut after beginning of tape has been detected. Mode transition error of mechanism.	When tape beginning sensor (pin 126, DV MAIN board IC401) remains Low level after 3 sec. of tape transport by short FF after detection of tape beginning in SEARCH REV mode, etc.	
Drum motor rotation error Err 7001 DRUM MOTOR FAILURE	AUTO OFF	Drum motor or MDA circuit defect, FG detector circuit defect.	When drum FG (pin 54, DV MAIN board IC401) is not detected for more than 4 sec. in drum driving mode.	0
Capstan motor rotation error Err 7101 CAP MOTOR FAILURE	AUTO OFF	Capstan motor or MDA circuit defect. FG detector circuit defect.	When drum FG (pin 55, DV MAIN board IC401) is not detected for more than 2 sec. in capstan driving mode.	
SUP reel rotation failure Err 7202 SUPPLY REEL FAILURE	AUTO OFF	Timing belt is cut or a reel control part in mechanism is defective.	When SUP REEL FG is not detected for more than 2 sec. in a tape transport mode.	0
SUP tape slack during cap- stan drive Err 7203 SUPPLY REEL FAILURE	AUTO OFF	Timing belt is cut or a reel control part in mechanism is defective.	When more than 4500 capstan FG pulses are detected in a single SUP REEL FG pulse in a capstan driving mode.	1
TU reel rotation failure Err 7302 TAKE UP REEL FAILURE	AUTO OFF	Timing belt is cut or a reel control part in mechanism is defective.	When TU REEL FG is not detected for more than 2 sec. in a tape transport mode.	0
SUP tape slackduring capstan drive Err 7303 TAKE UP REEL FAILURE	AUTO OFF	Timing belt is cut or a reel control part in mechanism is defective.	When more than 4500 capstan FG pulses are detected in a single TU REEL FG pulse in a capstan driving mode.	
Tape slack after unloading Err 7305 TAKE UP REEL FAILURE	AUTO OFF	Timing belt is cut or a reel control part in mechanism is defective.	When the number of TU REEL FG pulses during unloading is less than specified (this depends on the number of windings).	
SYSCON REF ERROR Err 8400 SYSCON REF ERROR	AUTO OFF	System controller reference signal failure	The servo reference signal is not transmitted to the SYSCON. Communication failure.	0

1.7.2 Invalid Errors

Error Details Counter display On-screen display	VCR Operation	Cause	Detection Method	Error History O: Recorded X: Not recorded	
Pc data tape is in use Pc TAPE PC TAPE INHIBIT	STOP	A cassette for the computer is loaded.	A different cassette type (pins 117, 118 and 119, DV Main board (C401) is detected after intaking cassette.	×	
NTSC/PAL reproduce inhibi- tion PAL inh/ntSc inh PAL INHIBIT/ NTSC IN- HIBIT	Continues operation.	A tape that has been recorded with an incompatible TV format is played.	AUX data in the playback signal is detected.	×	
LP reproduce inhibition LP inh LP INHIBIT	Continues operation.	A tape recorded in LP is played.	AUX data in the playback signal is detected.	×	
Recording inhibition rEc inh REC INHIBIT	STOP	 Accidental erasure protect slider of cassette is set to SAVE. MENU 304: REC DISABLE is set to DISABLE. Copy-guarded signal cannot be recorded. 	_	×	
No DV input/Copy inhibited 1394 inh 1394 INHIBIT	STOP	No signal is input at DV IN/OUT terminals. Copy inhibit signal is input.	_	×	
EE check error EE inh EE CHECK INVALID	Continues operation.	When an EE check performed by pressing the REC button during playback shows that the LINE signal is not input. When the signal input is IEEE1394.	With LINE input, the input signal is detected. With IEEE1394 input, EE signal cannot be output in MONITOR OUT. Therefore, an INVALID error occurs when EE check is performed.	×	
AUD DUB inhibition Adb inh AUDIO DUB INHIBIT	Operation stops.	Accidental erasure protect slider of cassette is set to SAVE. An attempt is made to dub on a tape that was recorded with a 48K sampling rate. MENU 304: REC DISABLE is set to DISABLE. Copy-guarded signal cannot be recorded.	<u>-</u>	×	
SSF data error SSF inh SSF INHIBIT	Continues operation.	SSF data error.	The Model ID and reel No. are not recorded on the tape. SSF data is not recorded at the beginning of tape.	×	
Fan motor stopped Fan StoP FAN MOTOR FAILURE	Operation stops in 60 sec. after the fan motor stops. (When menu SW 397: FAN STOP SHUT- DOWN is "ENABLE")		Detection of pin 6, AUD S/S board IC515.	×	
Head clogged HEad CloG HEAD CLOG	Continues operation.	Video head is clogged.	When the error rate is more than 8000 with viterbi ON. The threshold can be varied with service menu SW 051: ERR RATE THRESHOLD.	¥	
Servo fails to lock "SERVO" lit (No display)	Continues operation.	Drum rotation phase error exceeds 10%. Capstan motor rotation speed is deviated by more than 20%.	MSD µCOM detects drum rotation phase based on phase error between TSR and HID signals. Capstan motor rotation speed is detected from CAP FG.	1	
Battery alarm Blinking mark (No display)	Continues operation.	Battery alarm is detected	Detection of pin 62, AUD S/S board, IC501. Alarm voltage is variable using service menu SW 081 : BATTERY ALARM V.	×	
Battery warning Blinking mark LOW BATTERY	AUTO OFF	Battery shutdown is detected.	Detection of pin 62, AUD S/S board, IC501. Warning voltage is variable using service menu SW 080 : BATTERY SHUTDOWN V.	×	

1.8 EEPROMs

The EEPROMs are memories that can be erased or written electrically. As they hold the data required for VCR operations, adjustments and setup are required after replacing an EEPROM (also after replacing circuit boards). The following table shows the circuit boards and storage contents of the EEPROMs used in the set.

EEPROM	Stored Data	After Replacement
DC MAIN board IC103	Adjustment data for adjustment software	All data erased.
	Hour meter data	All data reset.
	Error history	All data erased.
	IEEE1394 ID data	ID data erased.
DV MAIN board IC106	Not used	-
AUD S / S board IC508	Setup menu setting data	Reset to initial setting.

1.9 CAUTION FOR REPLACING THE DV MAIN BOARD AND AUD S/S BOARD

When the DV MAIN board or AUD S/S board has been replaced for servicing, be sure to enforce the following items.

1.9.1 DV MAIN Board

[A] About the ID Management Label

Each VCR unit carries an ID label in compliance with IEEE1394 showing the unique ID assigned on the production line. (See the following figure for the label position.)

When replacing the DV MAIN board, remove the ID management label that was provided originally with the unit from the defective board and attach it in the same position to the new board.

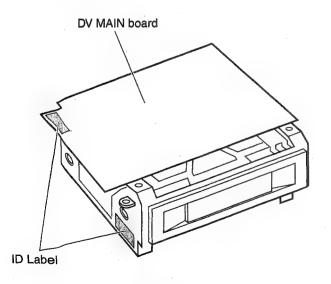


Fig. 1-9-1

[B] Load EEPROM Internal Data

The EEPROM provided with the new board for replacement contains no data, while the EEPROM originally provided with the VCR unit contains the IEEE1394 ID data as well as all adjustment data written in the assembly and adjustments written on the production line. This means that the new VCR unit will not function if the new EEPROM is used in the condition in which it is delivered.

When replacing the DV MAIN board, load the internal data of the EEPROM on the original board to the EEPROM of the new board

- (1) How to use original EEPROM to new DV MAIN board. Remove the EEPROM from the original DV MAIN board, and attach the chip to the new board.
- (2) How to write data from the original board to the new EEPROM How to load all parameters in EEPROM on original board to new EEPROM by using the adjustment software. (For details, see section 3.7.13)
- (3) In case of original EEPROM on the original DV MAIN board was broken. Load the default data before making adjustments with the adjustment software, write the data in the new EEPROM, then make adjustments by following the adjustment procedures. (See section 3.7.12 for details.) And then, input the ID number on the original board to new EEPROM by using the adjustment software. (See section 3.7.13 for details.)

1.9.2 AUD S/S Board

The AUD S/S board EEPROM that stores the setup menu is IC508. While the corresponding EEPROM in the GY-DV500 stores the model ID for use in running the SSF function, the EEPROM in the BR-DV600 does not store the model ID because it does not handle the SSF function but simply reproduces SSF data.

1.10 BACKUP OF TIME DATA

The BR-DV600 uses a polyacene battery (C40) to back up the LCD microcomputer on the Front board assembly. This is the same battery as that used in the SR-9070 and a secondary battery with a capacity of more than 2 F (Farads). It is capable of backup for about 60 hours with only 6 hours of power supply (OPERATE ON), the backed up data includes the following:

- (1) TC generator data (In the free run mode, the count continues even during backup.)
- (2) Date and time data for sub-codes.
- (3) CTL counter data.

1.10.1 Backup Circuit

The backup current to the polyacene battery is switched by IC10 on the Front board. When UNSW + 5 V drops below 4.6 V, this IC switches the microcomputer power to the LCD to the polyacene battery. At this time, IC10 sets the CS output to the Low level, the LCD microcomputer switches the clock oscillator to the power-saving X2 and functions in the sleep mode. The PRE END output is used to detect the battery voltage when a lithium battery is used. Although it provides the feedback signal to the microcomputer, the BR-DV600 does not utilize it.

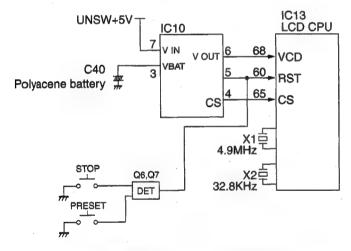


Fig. 1-10-1 Backup and Compulsory Reset Circuit

1.10.2 Compulsory resetting

Press the STOP and PRESET buttons simultaneously to compulsory reset the LCD CPU.

1.11 SET UP SW (U-MODEL ONLY)

Menu SW No. 125 is the SET UP ON/OFF switch. Its setting affects the recording and playback of analog video signals.

- Recording signals .. This switch varies the sampling level for A/D conversion of the input signal.
- Playback signals This switch adds the setup level to the playback signal.

SET UP SW (No. 125)	Recording Signals	Playback Signals
ON	Executes A/D conversion from the setup level. 235	Adds the setup level.
OFF	Executes A/D conversion from the pedestal level. 235	Does not add the setup level.

Set the switch correctly in accordance with the input signal. If the input signal contains the setup level while the SET UP SW is set to OFF, the input signal will be A/D converted and recorded together with the setup level component. If a tape, which has been recorded in such a way, is played on a VCR that is set to SET UP ON, a double setup will result.

Note:-

When setting menu switch No.108 [VIDEO INPUT SE-LECT] to IEEE1394 even if menu switch No.125 [SET UP] is set to on position, set up signals will not be provided to DV output and analog output.

If you would like to provide set up signals when play-back, set menu switch No.108[VIDEO INPUT SELECT] to LINE or Y/C or COMPONENT position (except IEEE1394).

1.12 EDITING SYSTEM USING THE BR-DV600

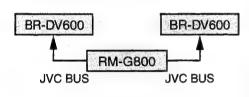
Since the BR-DV600 is basically a feeder VCR, it should be used as the player when building an editing system. Using the JVC bus with the controller may also support its use as an editor. However, note that in this case it is only capable of assembly editing and cannot be used in insert editing.

At the time of shipment, the system configurations for which connections are guaranteed are as shown below.

1.12.1 Control with JVC bus

Applicable controller: RM-G800 only.

1. BR-DV600+BR-DV600



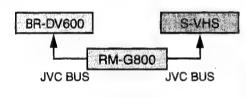
Editing function (Only the assembly editing and AUD DUB are available.)

Connection	ASSEMBLE	AV INSERT	V INSERT	A INSERT	A DUB
IEEE1394	Yes	No	No	No	No
ANALOG	Yes	No	No	No	Yes

BR-DV600 Menu Switch No.353 : EDIT ADJUST setting

Signal connection	Player	Setting	Recorder	Setting
Analog	BR-DV600	0F	BR-DV600	4F
IEEE1394	BR-DV600	0F	BR-DV600	2F

2. BR-DV600+S-VHS



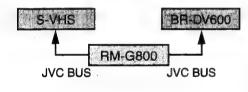
Applicable Recorders: 1. SR-S365 for NTSC, SR-S388E for PAL

2. BR-S800

BR-DV600 Menu Switch No.353 : EDIT ADJUST setting

Signal connection	Player	Setting	Recorder	Setting
Analog	BR-DV600	0F	BR-S800	_
Analog	BR-DV600	0F	SR-S365	_

3. S-VHS+BR-DV600



Applicable players:

1. BR-S800/500 + SA-N50

*As the BR-DV600 accepts only STD signals, be sure to insert a TBS board.

BR-DV600 Menu Switch No.353: EDIT ADJUST setting

Signal connection	Player	Setting	Recorder	Setting
Analog	BR-S800 or BR-S500 with SA-N50*	-	BR-DV600	3F

Fig. 1-12-1

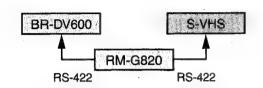
NOTES

- (1) BR-DV600 does not support CTL editing. Set it to TIMECODE editing.
- (2) As the RM-G800 has been optimized for connection with the SR-S365 (PAL: SR-S388E), it may take a longer time for cue up when it is used with the BR-DV600.
- (3) As the RM-G800 does not have the BUMP function, BUMP does not operate even when the BR-S800 is used as the recorder.
- (4) The editing accuracy of the RM-G800 is about ±5 frames.
- (5) As the BR-DV600 does not have framing servo, pictures may be edited at the 2nd field.
- (6) During editing using the RM-G800, preview is not available if the BR-DV600 is used as the recorder.
- (7) When the RM-G800U remote controller is used, the counter, etc. may malfunction due to interference generated by the peripheral equipment. In this case, set the clamp core to the controller cable. (See fig. 1-12-3.)

1.12.2 RS-422A (9P) controller

Applicable controller: RM-G820 only.

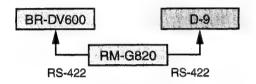
1. BR-DV600+S-VHS



Applicable VCRs:

- 1. BR-S800 (+ SA-K26)
- 2. BR-S822

2. BR-DV600+D-9



Applicable VCRs: 1. BR-D750 / D85 / D80 2. BR-D92

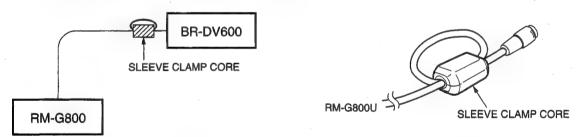
Fig. 1-12-2

NOTES

- (1) BR-DV600 does not support CTL editing. Set it to TIMECODE editing.
- (2) The editing accuracy is ± 1 frame with time code editing.
- (3) As the BR-DV600 does not have framing servo, pictures may be spliced at the 2nd field.
- (4) Setting for No. 353:EDIT ADJUST is not required. Set the initial setting to 0F.
- (5) The EDIT TIMING of the controller is automatically set when the recorder reads the ID.
- (6) In order to attain optimum editing precision, be sure to operate the RM-G820 LEARN function after connection.

Measures to be taken when the RM-G800 malfunction • Coil the cable (BR-DV600 side) once that is from the RM-G800

• Coil the cable (BR-DV600 side) once that is from the RM-G800U connector, then attached a sleeve clamp core.



• If an extension cable (VC-8030U) is used, attached a sleeve clamp core at two locations, one on the RM-G800U side and one on the BR-DV600 side.

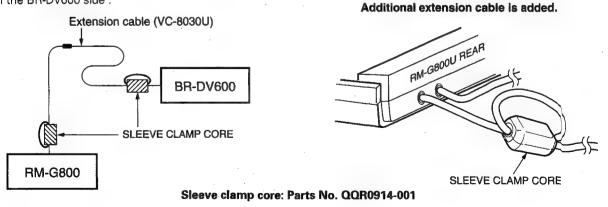
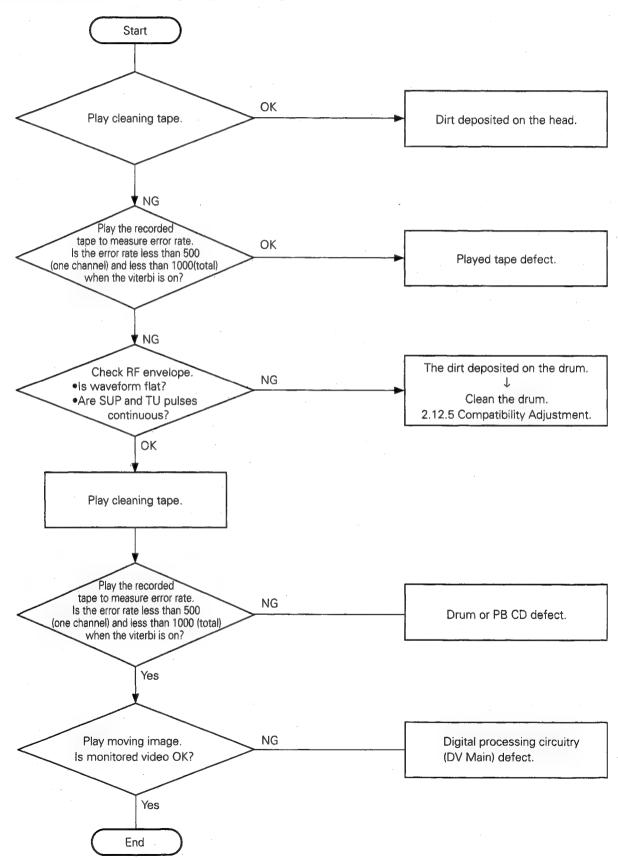


Fig. 1-12-3

1.13 ANALYSIS OF BLOCK NOISE (SYMPTOMS: POOR VIDEO, ABSENCE OF AUDIO)

1.13.1 Analysis Flow Chart

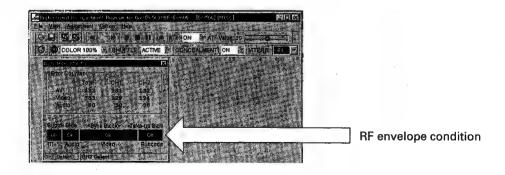
In case of trouble, perform troubleshooting using the following flow chart.

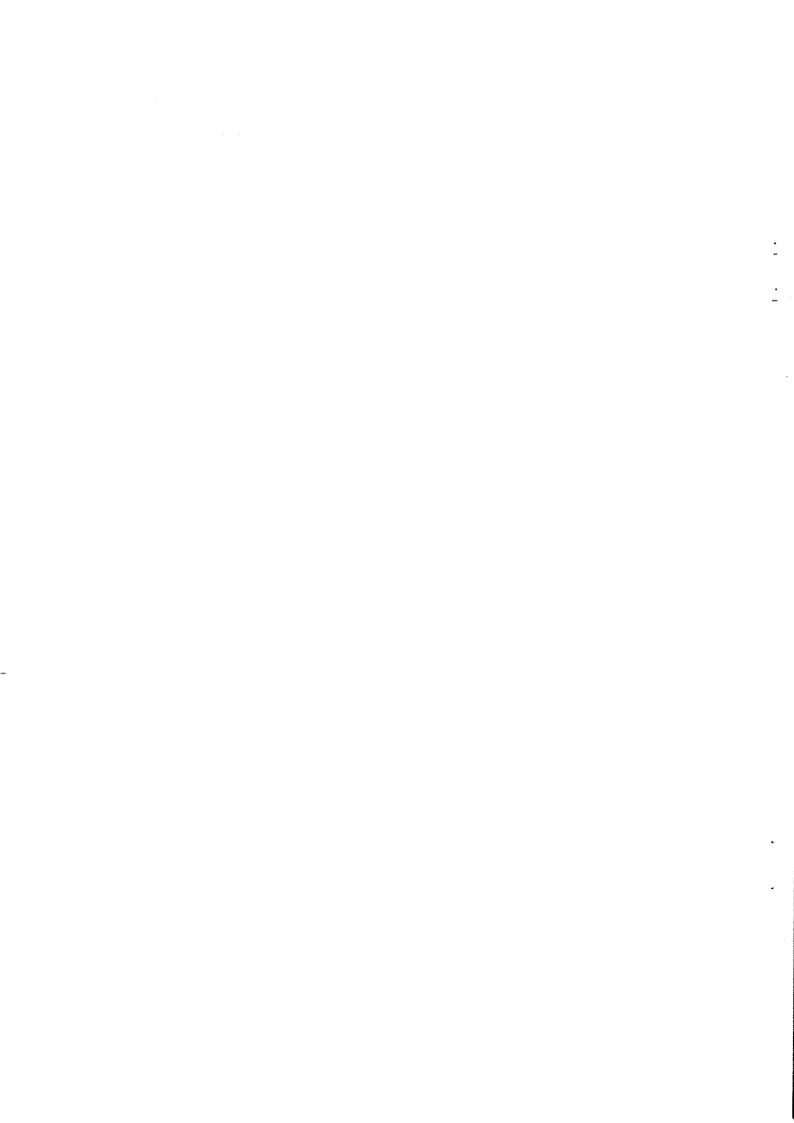


1.13.2 RF Envelope Check

Symptom Observed on Monitor Screen	RF envelope	Audio, etc.	Possible Causes
Block noise on left	SUP dropout	No audio output. Intermittent audio.	 Supply guide roller adjustment failure. Dirt on supply side of drum.
Block noise on right	TU dropout	Timecode not counted.	 Take-up guide roller adjustment failure. Dirt on take-up side of drum.
One CH frozen	No video output from one CH	Audio is output.	 Dirt attached on one CH of head. Drum assembly defective. PR & MDA board IC901 defective.
Frozen	Low level	• No audio output.	Dirt attached on head. Drum assembly defective.

The RF envelope condition can be confirmed to a certain degree in the Error Rate adjustment display.





SECTION 2 MECHANICAL ADJUSTMENTS

2.1 BEFORE ADJUSTMENTS

2.1.1 Precautions

- Be sure to apply a screw securing torque when attaching a part
 - The securing torque should be 0.04 N-m (0.4 kgf-cm) unless otherwise specified.
- 2) Always unplug the power cord of the set before attaching, removing or soldering a part.
- 3) When unplugging a connector, do not pull the wire but grasp the connector body.
- 4) Do not make an adjustment or rotate a potentiometer blindly while the source of trouble is not identified.
- 5) Before adjusting electrical circuitry, be sure to wait for more than 10 minutes after turning the power on.

2.1.2 Measuring instruments required for adjustments

Instrument	Condition
Oscilloscope	Calibrated instrument with measuring bandwidth of 100 MHz or more.
Personal computer	Microsoft Windows 95/98 environment, Pentium 133 MHz or better, Memory 16 MB or more.

Table 2-1-1

2.1.3 Equipment required for adjustments

Ec	quipment required for adjustments		
1	Alignment tape	6	Slit washer attaching tool
MC-	1 (NTSC) 2 (PAL)	YTU	94121A
2	DV tape	7	Connector cable
For in se	use elf-recording/playback. (60 ME)	PTU	94018A
3	Cassette torque meter	8	PC cable
YTU	194150A	QAM	10099-001
4	Guide screwdriver	9	Adjustment software
YTU	J94085	Tob	e downloaded from the WWW site of JS-NET Pro Victeo Division.
5	Torque screwdriver	10	Chip IC replacement tool
YTU	P94088 YTU94088-003 Replaceable bit (long type)	PTS	40844-2

Table 2-1-2

2.2 BASICS OF MECHANISM DISASSAMBLY/ASSEMBLY

2.2.1 Assembly mode

The disassembly and assembly of the mechanism can be done in the ASSEMBLY mode (see Table 2-2-1).

The ASSEMBLY mode is provided in the intermediate position between C-IN and S.FF. As the C-IN (Cassette IN) mode is usually set when a cassette tape is ejected, the ASSEMBLY mode should be entered after entering the C-IN mode. To set the AS-

SEMBLY mode, apply 3 V DC to the electrodes at the top of the loading motor shown in Fig. 2-2-1. The ASSEMBLY mode is set when the markings (red) on two gear teeth of the rotary encoder are aligned with the confirmation holes.

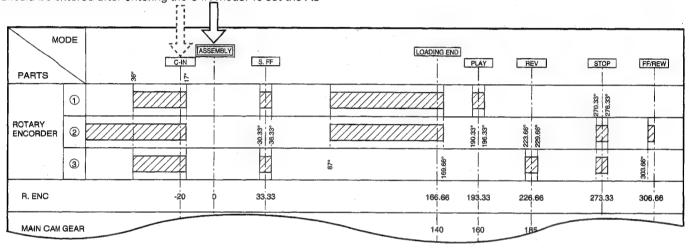
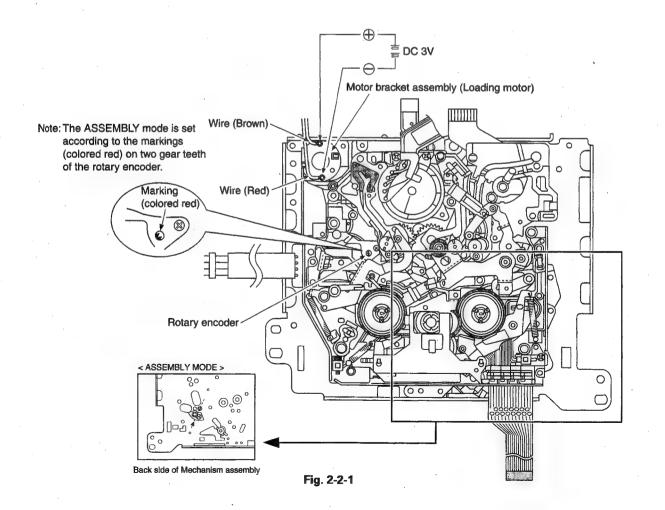


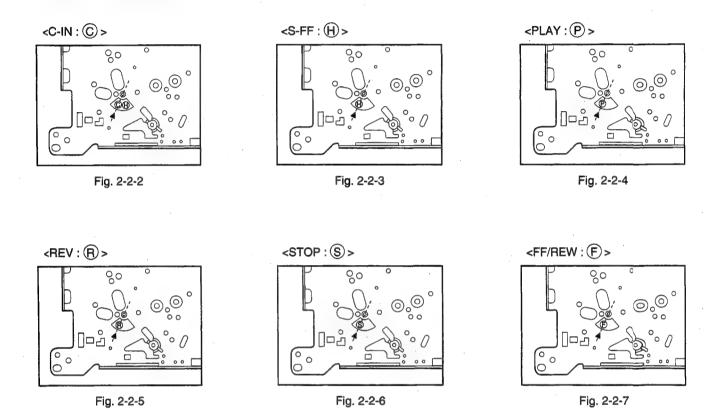
Table 2-2-1



2.2.2 Mechanism modes

The mechanism has 6 modes as shown in Table 2-3-1. The current mode can be confirmed by observing the markings on the sub-cam gear and the ▲ mark on the main deck at the back side of mechanism assembly. See Figs. 2-2-2 to -7.

1. Mechanism mode confimation



2.3 MECHANISM TIMING CHART

See following table (Table 2-3-1).

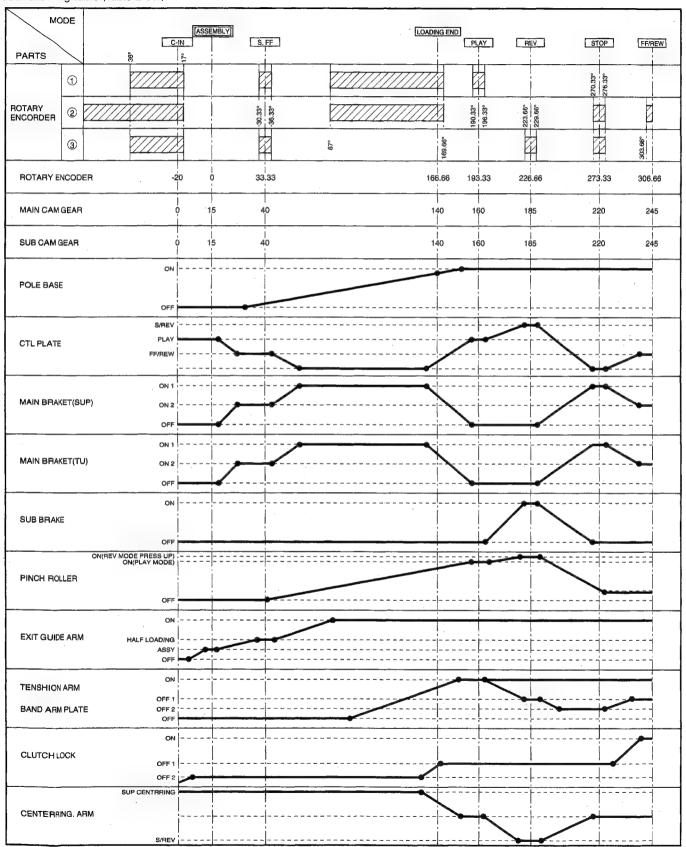


Table 2-3-1

2.4 MAINTENANCE AND INSPECTION OF MAJOR PARTS

Periodical inspection and maintenance are requisite to maintain the initial performance and reliability of the product. Table 2-4-1 (Maintenance & Inspection List) has been compiled assuming standard operating conditions, and the specifications in the table are greatly variable depending on the actual operating environment and conditions. Remember that, if the maintenance and inspection are not enforced properly, the operating hours of

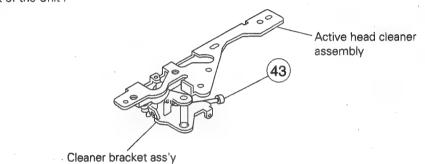
the product will not only reduce considerably but other unfavorable influences may produce.

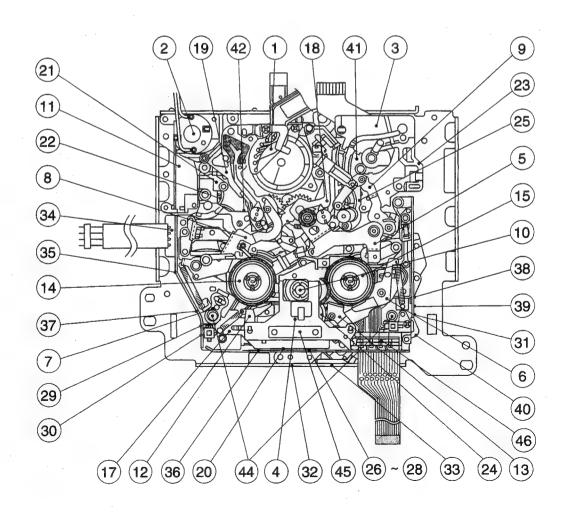
Rubber parts may deform or degrade after long period of storage even if they are not used in this period.

The service life of the drum is variable depending on the tape used and operating environment.

2.4.1 Layout of Major Parts

To attach the Active Head Cleaner Assembly, refer to "1.4.2. Disassembling the Rear Part of the Unit".





2.4.2 Maintenance and inspection list

- 1) The 6000 H maintenance consists of a replacement of the entire mechanism assembly.
- 2) When mounting the capstan motor on the main deck, control of the verticality is required. Therefore, when the capstan motor reaches the end of its service life, the entire mechanism assembly should be replaced.

	Part Name				O	perati	ng Ho	ours (ORUN	Λ Ηοι	ır Me	ter)			Ref.
i			500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	nei.
1	Tape transport parts		*	*	*	*	*	*	*	*	*	*	*	_	
2	② ENT. guide base assembly	M 4 43	*	0*	*	•	*	0*	*	•	*	0*	*		2.7.14
3	® Tension arm sub-assembly	M 4 40	*	0*	*	•	*	0*	*	•	*	0*	.*	_	2.7.8
4	(9) Guide rail (S) assembly	M 4 22	*	0*	*	•	*	0*	*	•	*	0*	*	_	2.7.12
5	(5) Guide rail (T) assembly	M 4 23	*	0*	*	•	*	0*	*	•	*	0*	*	_	2.7.12
6.	Middle catcher assembly	M 4 24	*	0*	*	•	*	0*	*	•	*	0*	*	_	2.7.5
7	① Capstan shaft	M4 4	*	*	*	*	*	*	*	*	*	*	*	-	
8	Pin roller arm assembly	M 4 44	*	0*	*	•	*	0*	*	•	*	0*	*	_	2.7.3
9	Exit guide arm assembly	M 4 43	*	0*	*	•	*	0*	*-	•	*	0*	*	_	2.7.4
10	① Drum assembly	M 4 50	*	*	*-	•	*	*	*	•	*	*	*	_	2.7.2
11	Capstan motor	M 4 4	_	_	_	-	_	0	0	0	0	0	0	•	_
12	🙈 Reel drive pulley assembly	M 4 33	_	ΟΔ	_	lacktriangle	-	ΟΔ	-	lacktriangle	_	ΟΔ	_	_	2.7.15
13	@ Center gear assembly	M 4 34	0	lacktriangle	0	lacktriangle	0	lacktriangle	0	lacktriangle	0	lacktriangle	0	_	2.7.14
14	Timing belt	M 4 11	0	•	0	•	0	•	0	•	0	•	0	_	2.7.14
15	② Clutch lock gear (1)	M 4 12	_	ΟΔ	-	lacktriangle	-	ΟΔ	-	lacktriangle	-	ΟΔ	_	_	2.7.15
	② Clutch lock gear (2)	M 4 14													
16	Sub-brake assembly	M 4 36		0	_	•	-	0	_	•	-	0	_	_	2.7.10
17	Main brake (S) assembly	M 4 38	_	0	<u> </u>	0	-	0	_	0	_	0	_	·-	2.7.10
18	(3) Main brake (T) assembly	M 4 37	-	0	_	•	_	0	-	•	-	0	_	_	2.7.10
19	15Reel disk assemblies	M 4 39	_	0	_		_	0	-	lacktriangle	_	0	_	-	2.7.11
20	Band arm plate assembly	M 4 41	_	0	-	•	_	0	-	•	-	0	-	_	2.7.8
21	Swing arm assembly	M 4 42	0	•	0	•	0	•	0	•	0	•	0	-	2.7.7
22	@ Worm wheel 2	M4 3	. –	0	-	•	-	0	-	•	-	0		-	2.7.14
23	Motor bracket assembly	M 4 20	_	0	-	•	T –	0	-	•	-	0	-	_	2.7.2
24	Rotary encoder assembly	M 4 21	-	0	-	•	-	0	-	•	-	0	_	_	2.7.18
25	Centering arm assembly	M 4 26	_	0	_	•	-	0	_	•	_	0	_	_	2.7.18
26	Min cam	M4 8	_	0	-	•	_	0	-	•	_	0	_	-	2.7.18
27	Sub cam	M4 9	_	0	_	•	_	0	_	•		0	-	_	2.7.19
28	Cleaner assembly	M 4 29	0	•	0	•	0	•	0	•	0	•	0	•	2.7.20
29	Cassette guide pin	M 4 35	*	*	*	*	*	*	*	*	*	*	*	-	
30	Cassette guide	M 4 35	*	*	*	*	*	.*	*	*	*	*	*	_	
31	MIC contact	M 4 35	*	*	*	*	*	*	*	*	*	*	*	-	
32	Mechanism assembly (including cassette housing assembly)	M 4 1	-	-	-	-	T -	-	T -	-	_	T-	_	•	

★: Clean with ethanol. O: Check and replace if required. ●: Replace. Δ: Oil the shaft.

After replacing a part, apply lubricant to the required points.

2.4.3 Cleaning

The mechanism incorporates a video head cleaner that is effective for the removal of magnetic dust, etc. However, tape lubricant adhering to the head surface produces a spacing loss, it is recommended to polish the heads using a head cleaning tape. When the video heads become soiled an increase in the error rate results. Eventually, when the error rate increase is too much to be corrected by the error correction circuit, block noise will be observed in the picture.

1) Cleaning the video heads

Use the DVC cleaning cassette for cleaning the video heads. Always be sure to use the same cleaning cassette model as that provided with the product. (Part No. PGZ02641)

The video heads should be cleaned periodically. Moreover, care should be taken about the operating environment as the tape running time standard varies accordingly. Please refer to "Precautions for Use of Head Cleaning Tape" in the attached sheet (Refer to section of instructions).

Caution

- As the DVC cleaning tape has a much higher lapping effect than VHS cleaning tapes, frequent use of the DVC cleaning tape will reduce the head service life. Do not play the DVC cleaning tape for more than 10 seconds per run or for more than 4 times per cleaning session.
- The cleaning tape can be used effectively for up to about 4 passes. It cannot improve the cleaning effect even if it is run for more than 4 times.

2) Cleaning the upper/lower drums

Use a cleaning cloth or high-quality paper sheet to clean the upper drum. Moisten the cloth or paper sheet with a small amount of ethyl alcohol, apply it lightly against the upper drum while turning it by hand.

After this operation, wipe it with a dry cloth or paper sheet without alcohol. Be sure to play the cleaning tape to its end. The lower drum tends to gather magnetic dust, etc. in its lead section, and linearity cannot be achieved if this becomes excessively dirty. The tape inlet and outlet areas are contaminated particularly easily, causing trouble such as dropout in FM signal reproduction, block noise on one side of a monitored picture, absence of audio output or incapability of time code readout. To clean the lead section, use a toothpick and rub lightly along the lead section. Be careful not to scratch the video head when this is done.

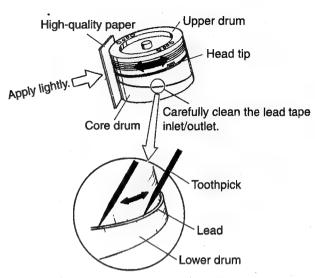


Fig. 2-4-1

3) Cleaning the tape transport system

Moisten the tip of a cotton swab with alcohol and use it to clean the tape transport parts. Take special care of the TU/SUP guide roller flanges and the rear sides of the inclined poles, as these are the parts that most frequently collect magnetic dust.

Caution

Do not wipe the capstan shafts using alcohol. Otherwise, the oil in the bearings may be diluted by the alcohol and become attached to the tape.

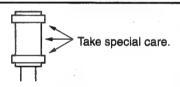


Fig. 2-4-2 Guide Roller

2.4.4 Oiling and Greasing

Table 2-4-2 shows the oil and greases used with the set.

Classification	Name	Part No.
Oil	Cosmo Hydro HV100	YTU94027
Grease	Maltemp SH-P	KYODOSH-P
	Hanal	RX-410R

Table 2-4-2

- Oiling should be performed periodically. Oil the shafts by referring to the maintenance table.
- After replacing a part, grease the required points. For the parts to be greased see the exploded diagram in chapter 5, "DISASSEMBLY DRAWINGS AND PARTS LIST".
- 3) As Hanal separates over time, be sure to mix it is hake) well before use.
- 4) Take care not to leave grease or oil on the take transport parts which come into contact with the tape or in the brake pads.
- 5) Take care not to apply too much oil or grease. The standard oiling quantity is one drop and the standard greasing quantity is the quantity with which the grease does rot overflow.

2.5 PERIODICAL MAINTENANCE

Perform maintenance at the correct times in accordance with the maintenance table.

Fig. 2-5-1 shows the flow chart of periodical maintenance procedures at different operating hours.

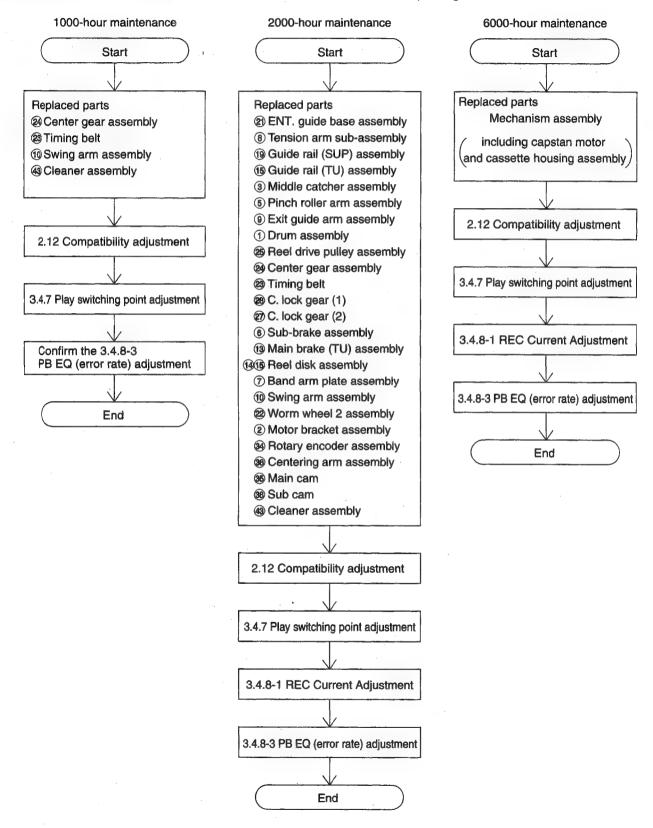


Fig. 2-5-1

2.6 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.6.1 Assembly/Disassembly

The following table shows the mechanism assembly/disassembly procedures.

- 1 : Names of the disassembled/assembled parts.
- 2 : Items of disassembly.
- 3 : Parts to be removed for disassembly, such as screws, washers and springs, and points.

Symbol	Name or Point
S	Screw
W	Washer
Р	Spring
*	Connector, lock (L), soldering (SD), shield, etc.

2.6.2 Screws and Washers Used in Mechanism Assembly Disassembly/Assembly

Table 2-6-1 shows the symbols, designs, part numbers and colors of the screws and washers used with the Mechanism assembly.

When disassembling or assembling the Mechanism assembly, be sure to attach the correct screws and washers by referring to the following table.

Symbol	Design	Part No.	Color
(S1)		QYSDSP2005Z	Gold
(S2)	(m)	YQ43893	Silver
(S3)		YQ43893-7	Black

Symbol	Design	Part No.	Color
W1	@	YQ44246	Red
W2	@	YQ44246-3	Black
W3	0	YQ43933-2	Black

Fig. 2-6-1

	Part Name	Step	Points	Remark
1	(A) Cassette housing assembly, (B) Main deck assembly	. 1	2(S1), (L1) to (L5)	
2	① Drum assembly	2	3(S2)	
3	② Motor bracket assembly	2	4(S2)	
4	③ Middle catcher assembly	3	3(S2)	·
	1	1	↑	
	1	2	3	

2.6.3 Mechanism Assembly Disassembly Procedure Table

	Part Name	Item	Points	Remark
1	Cassette housing assembly	1	2 (S1), (L1) to (L5)	
2	1 Drum assembly	2	.3 (S2)	
3	2 Motor bracket assembly	2	4 (S2)	
4	③ Middle catcher assembly	5	3 (S2)	
5	Reel cover assembly	6	(S2), 2 (L6)	
6	Pinch roller arm assembly	3	(W1), (L7)	
7	6 Sub-brake assembly	10	(P1), (W1), (L8)	VIII VIII VIII VIII VIII VIII VIII VII
8	(7) Band arm plate assembly	8	(S3), (L9), (P2), (W2)	
9	Tension arm sub-assembly	8	(P3)	,
10	Exit guide arm assembly	4	(W1)	
11	① Swing arm assembly	7	-	Position alignment
12	① Sub-deck assembly	9	4 (S2)	Position alignment
13	12 Main brake (SUP) assembly	10	(P4), (L10)	
14	(13) Main brake (TU) assembly	10	(P5), (L11)	
15	14 Reel base assembly (SUP)	11	_	
16	(15) Reel base assembly (TU)	11	_	
17	16 Prism	7	(S2)	
18	① Control plate	11	(2 (L12)	
19	(18) Guide rail (TU) assembly	12	4 (S2)	Position alignment
20	19 Guide rail (SUP) assembly	12	(S2), 2 (L13)	Position alignment
21	20 Base plate assembly	13	(S2), 2 (L14)	
22	② ENT. guide base assembly	14	(S2)	
23	2 Worm wheel 2	14		Phase alignment
24	23 Timing belt	14		
25	② Center gear assembly	14		
26	28 Reel drive pulley assembly	15	(W1)	
27	26 Push plate	15	(W1)	·
28	② Clutch lock gear (2)	15	(W3)	
29	Clutch lock gear (1)	15	(P6)	
30	29 Tension control arm assembly	16	(L15)	Position alignment
31	30 Brake control arm assembly	16	(W1), (L16)	Position alignment
32	3 Charge arm assembly	16	(L17)	Position alignment
33	3 Connect gear 2 (SUP)	17	(S2)	(Phase alignment)
34	3 Connect gear 2 (TU)	17	(S2)	(Phase alignment)
35	Rotary encoder assembly	18	2 (S2)	Phase alignment
36	∞ Main cam	18	(W1)	Phase alignment
37	36 Arm gear 1 assembly	18	Collar	Position alignment
38	③ Centering arm assembly	18	(L18)	Position alignment
39	38 Sub cam	19	(S2)	Phase alignment
40	39 Arm gear 2 assembly	19	_	Position alignment
41	@ Clutch lock lever assembly	19	(L19)	Position alignment
42	(4) Capstan motor			Change with mechanism assembly
43	@ Drum base deck		3 (S2)	

Table 2-6-2

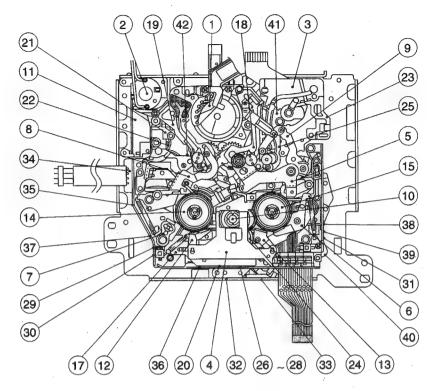


Fig. 2-6-1

2.6.4 Mechanism disassembly/assembly procedure chart <how to read the chart>

- · The following chart shows the disassembly/assembly procedures by dividing them into blocks A to I.
- To remove the tension arm sub-assembly which is located in block D; start disassembly from block A. The tension arm sub-assembly can be removed as the fourth operation after the removals of the cassette housing assembly (block A) → reel cover assembly (block B) → band arm plate assembly (block C).
- The parts enclosed in thick frames are the maintenance parts listed in the maintenance table.
- For details on the disassembly/assembly, see section 2.7, "Replacement of Major Parts".

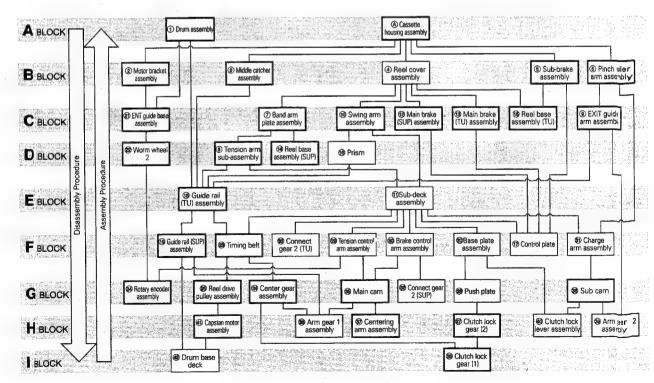
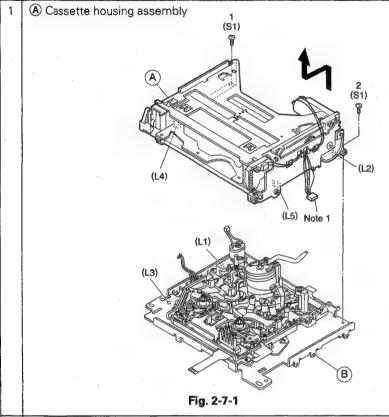


Fig. 2-6-2

Vo.	ltem	Reference picture/drawing	Procedure

2.7 REPLACEMENT OF MAJOR PARTS

- Make sure that the mechanism is in the ASSEMBLY mode before proceeding to disassembly or assembly. (See section 2.1, "Assembly Mode".)
- Screws must always be tightened using a torque screwdriver and at the specified torque.

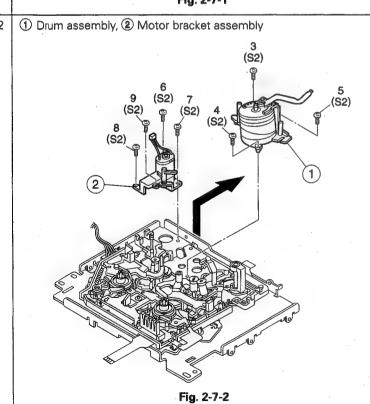


<Removal>

1) Remove the 2 screws (S1) then take out the cassette housing by sliding it upward and toward the front.

<Attaching>

1) Reverse the removal procedure.



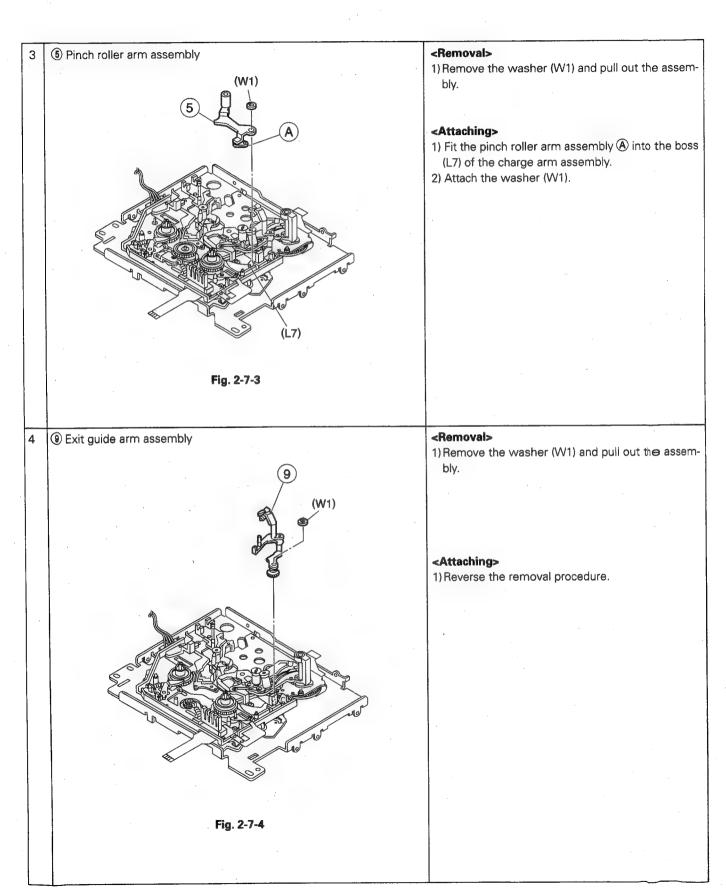
<Removal>

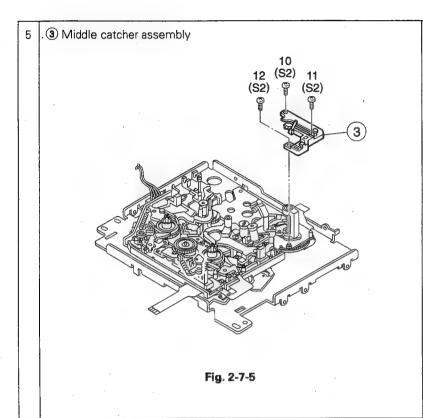
- 1 Drum assembly
- 1) Remove the 3 screws (S2) and take out the assembly.
- ② Motor bracket assembly
- 1) Remove the 4 screws and take out the motor bracket assembly.

<Attaching>

1) Reverse the removal procedure

No. Item Reference picture/drawing Procedure	No	. Item	Reference picture/drawing	Procedure
--	----	--------	---------------------------	-----------





<Removai>

1) Remove the 3 screws (S2) and remove the assembly.

<Attaching>

1) Reverse the removal procedure.



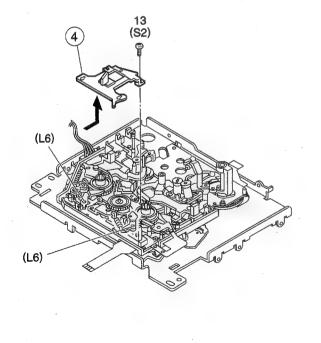


Fig. 2-7-6

<Removal>

- 1) Remove the screw (S2).
- 2) Slide the assembly toward the drum and lift the assembly up to remove it.

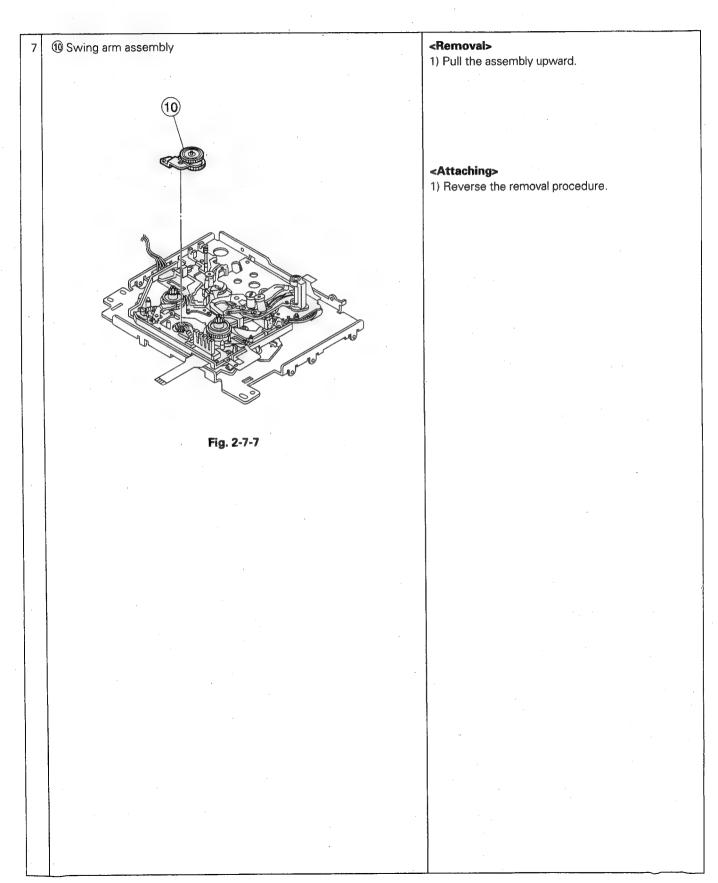
NOTE-

 After having removed the reel cover, take care because the parts located below the reel cover tend to slip out easily.

<Attaching>

1) Insert the reel cover into (L6) and attach by reversing the removal procedure.

No.	ltem	Reference picture/drawing	Procedure



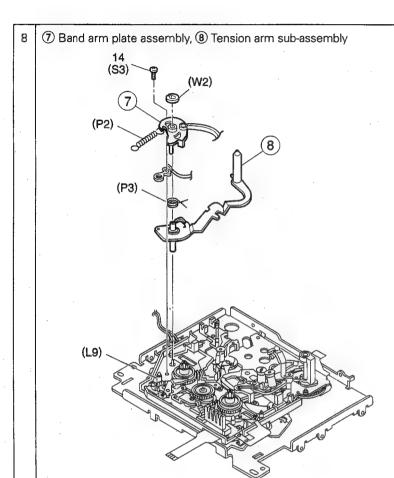
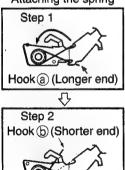
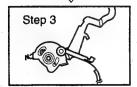


Fig. 2-7-8(a)

Attaching the spring





The spring (P3) should be attached only to the tension arm sub-assembly (3). It should not contact the band arm plate assembly (7).

Fig. 2-7-8(b)

<Removal>

- 1) Remove the washer (W2).
- 2) Remove the screw (S3).
- 3) Remove the spring (P2).
- 4) Remove the band arm plate assembly and tension arm sub-assembly.

NOTE

Be careful not to lose the spring (P3).

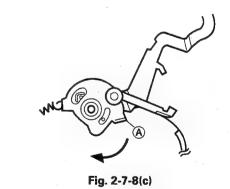
<Attaching>

- 1) Attach the spring (P3) to the tension arm subassembly. Engage the longer end of spring to hook
 - (a) and the shorter end to hook (b) as shown in Fig. 2-7-8(b).
- 2) Attach the tension arm sub-assembly.
- 3) Attach the band arm plate assembly.
- 4) Clamp with the screw (S3) and washer (W2).
- 5) Attach the spring (P2) to (L9).

NOTE-

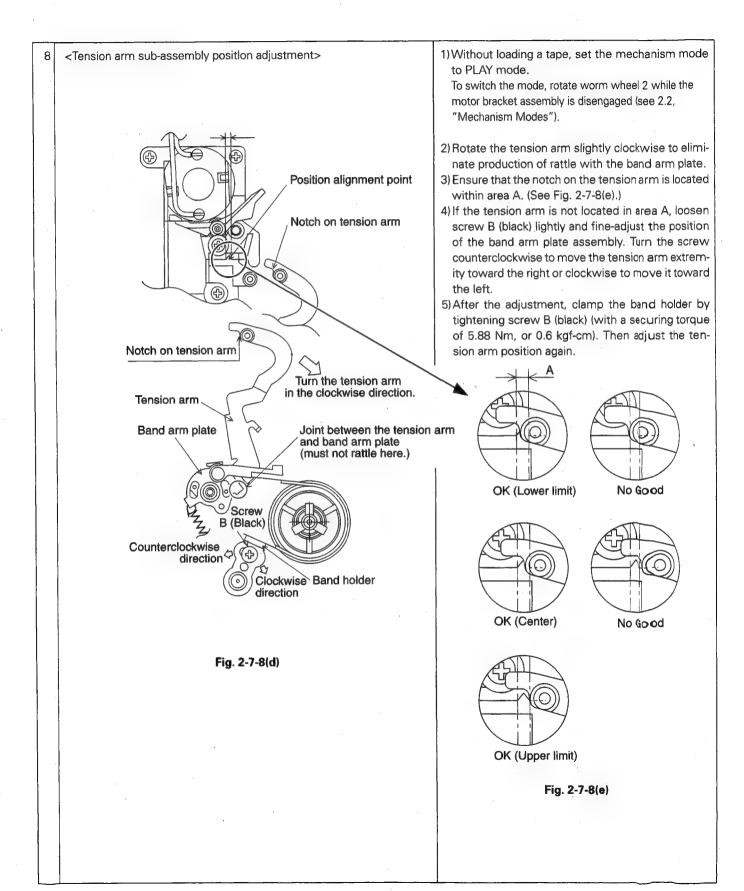
After attaching, ensure that the band arm assembly can rotate in the direction of the arrow as shown in Fig. 2-7-8(c).

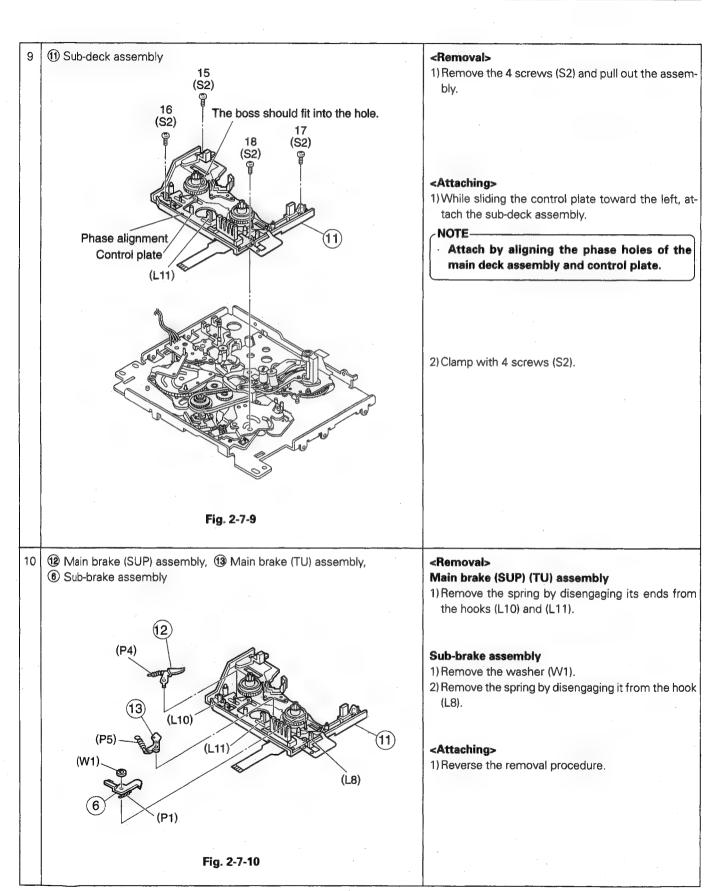
Attach so that the section (A) comes on the outer side of the tension system sub-assembly (8).



6) After attaching, adjust the tension.

No.	Item	Reference picture/drawing	Procedure
İ			





11 Reel base (SUP) assembly, ® Reel base (TU) assembly, Toontrol plate, ® Prism

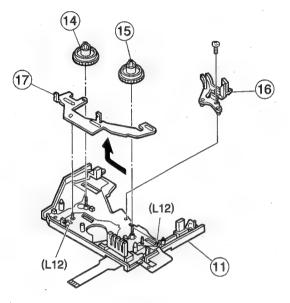


Fig. 2-7-11

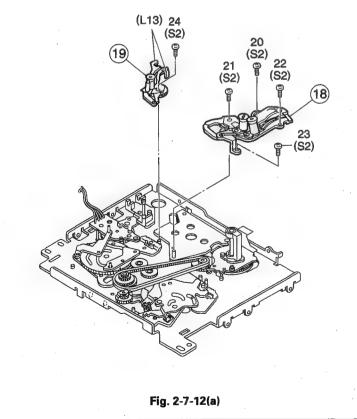
<Removal>

- 1) Pull up each assembly to remove it. The control plate can be removed by sliding it toward the left as shown by the arrow.
- 2) Remove the screw (S2) to remove the prism.

<Attaching>

1) Reverse the removal procedure.

12 (8) Guide rail (TU) assembly, (9) Guide rail (SUP) assembly



<Removal>

Guide rail (TU) assembly:

1) Remove the 4 screws (S2) and remove the assembly.

Guide rail (SUP) assembly:

1) Remove the screw (S2) and removethe assembly.

<Attaching>

1) Return the guide pole fully to the unloading position, and attach the assemblies by reversing the removal procedures. When attaching, place the alignment markings of the two geas so that they face each other. (See Fig. 2-7-12(b).)

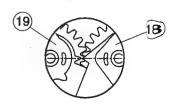


Fig. 2-7-12(b)

13 20 Base plate assembly

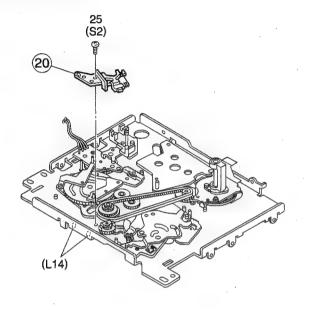


Fig. 2-7-13

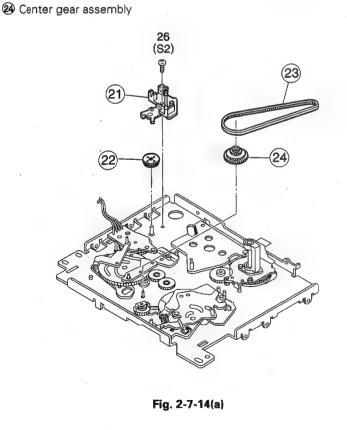
<Removal>

1) Remove the screw (S2) and take out the assembly.

<Attaching>

1) Attach the assembly to the boss (L14) as if inserting, then clamp with the screw.

14 @ Entrance guide base assembly, @ Worm wheel 2, @ Timing belt,

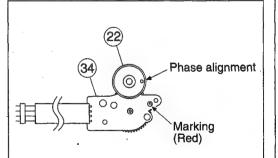


<Removal>

1) The entrance guide base assembly can be removed by removing the screw (S2). Other parts can be removed by simply pulling them out.

<Attaching>

1) Reverse the removal procedure. See Fig. 2-7-14(b) for the worm wheel 2.



Align the phase of the rotary encoder assembly , then attach the main deck assembly by aligning the phase hole with the rotary encoder assembly.

Fig. 2-7-14(b) Attaching Worm Wheel 2 2

No	. Item	Reference picture/drawing	Procedure
1			

Reel drive pulley assembly, Push plate, Clutch lock gear (1),
Clutch lock gear (2)

(W1)
(W3)
(P6)
(P6)
(W1)

Fig. 2-7-15

<Removal>

1) Remove the washer (W1) and take out the assembly.

<Attaching>

1) Reverse the removal procedure.

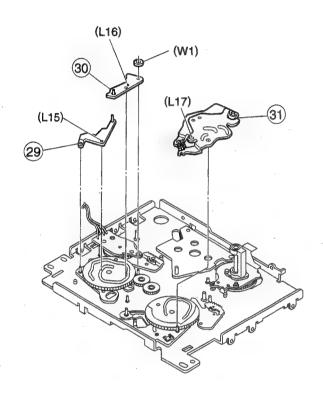
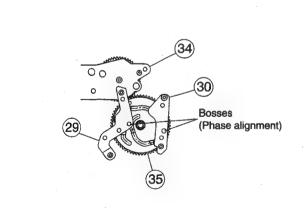


Fig. 2-7-16(a)



Align the phase of the main cam ∞ then attach by fitting the bosses in the cam groove.

Fig. 2-7-16(b)

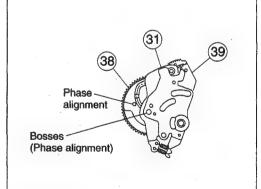
Attaching Tension Control Arm Assembly @ and Brake Control Arm Assembly ®

<Removal>

1) The brake control assembly can be removed after removing the washer (W1).

<Attaching>

1) Align the phases of the main cam and sub cam, then attach by reversing the removal procedure. Refer to Fig. 2-7-16(b) and Fig. 2-7-16(c).



Phase alignment
Boss (Phase alignment)
Align the phase of the sub cam (39), then
attach by fitting the boss into the cam groove.

Fig. 2-7-16(c) Attaching the Charge Arm Assembly (3)

No.	item	Reference picture/drawing	Procedure

2 Connect gear 2 (SUP), 3 Connect gear 2 (TU) <Removal> 1) Remove the screw (S2) and take out the gears. 27 (S2) <Attaching> 1) Reverse the removal procedure. The two connect gears 2 are given the same part number. NOTE-· Align the phases of the main cam and sub cam when attaching. Fig. 2-7-17

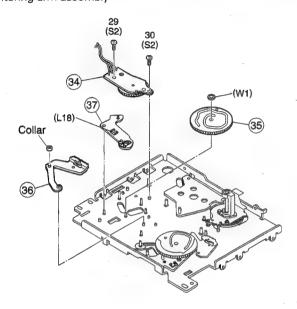
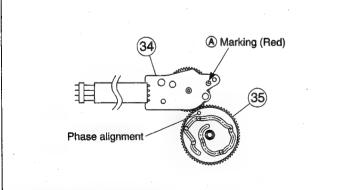


Fig. 2-7-18(a)



Align the phase of the main cam ∞ , then attach by aligning the redcolored markings A (on 2 gear teeth) inside \bigcirc .

Fig. 2-7-18(c) Attaching the Rotary Encoder Assembly 34

<Removal>

- 1) The rotary encoder can be removed by removing the 2 screws (S2).
- 2) The main cam can be removed by removing the washer (W1). As the cam gear is engaged at the rear of the main deck assembly while the phase is aligned, deviate the phase in the direction of the arrow before removal. (See Fig. 2-7-18(b).)

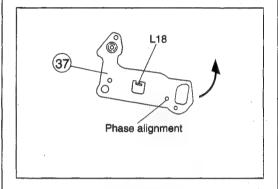
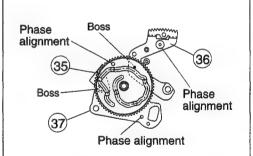


Fig. 2-7-18(b) Removing the Centering Arm Assembly 37

<Attaching>

1) Align the phase by referring to Figs. 2-7-18(c) and 2-7-18(d), then attach the ass'ies reverse the removal procedure.



Align the phases of the arm gear 1 assembly and centering arm assembly 3, then align those of the arm gear 1 assembly 3 and centering arm assembly 3, attach the gear by fitting the bosses into the cam groove below, and fit the slit washers.

Fig. 2-7-18(d) Attaching the Main Cam ∞

19 Sub cam 99 Arm gear 2 assembly, 40 Clutch lock lever assembly

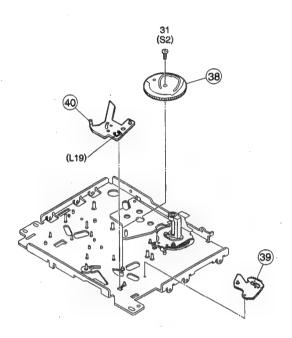


Fig. 2-7-19(a)

<Removal>

Remove the screw (S2) and take out the sub cam.
 As L19 is engaged at the rear of the main deck assembly while the phase is aligned, deviate the phase in the direction of the arrow before removal.

 This checking should be done after completing the switching point adjustment.

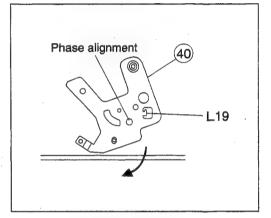
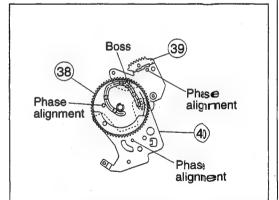


Fig. 2-7-19(b) Removing the Clutch Lock Lever Assembly (40)

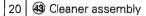
<Attaching>

 Align the phase correctly by referring to Fig. 2-7-19(c), then attach by reversing the removal procedure.



Align the phases of the arm gear 2 as embly and clutch lock lever assembly 40, attern them by fitting the boss into the cam groove below, and clamp with the screw.

Fig. 2-7-19(c) Attaching the Sub am 38



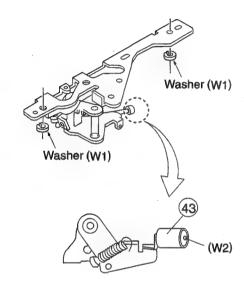


Fig. 2-7-20(a)

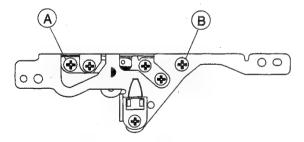


Fig. 2-7-20(b)

<Removal>

- 1) Remove the washer (W2)
- 2) Take out the 49 cleaner assembly.

<Attaching>

- 1) Reverse the removal procedure.
- 2) Activate the cleaner (loading) and ensure that the cleaner contacts the drum normally. (Make sure that the cleaner rotation sound is heard.)

<When an active head cleaner assembly is disassembled>

- After the active head cleaner assembly has been disassembled and assembled, the following adjustment is required to restore the pressure of contact of the cleaner to the drum.
- In order to ensure the efficient operation of the cleaner assembly, washers (W1) were added during the production run. (See fig. 2-7-20(a).) Thus, the adjustment value of the cleaner assembly is altered.
- 1) Rotate screw ♠ fully clockwise until it is stopped, then rotate it counterclockwise by turn. (The clamping torque is 4.9 x 10-4 N m/0.5 kgf cm or less)
- 2) Rotate screw

 fully clockwise until it is stopped, then rotate it counterclockwise by b turn. (The clamping torque is 4.9 x 10-4 N m/0.5 kgf cm or less)
- 3) Activate the cleaner (loading) and ensure that the cleaner contacts the drum normally. (Make sure that the cleaner rotation sound is heard.)
- 4) If the cleaner does not work normally, rotate screw
 B clockwise (if a washer is attached, rotate it counterclockwise) by 1/8 turn and then check the operation again.

	Without Washer	With Washer
а	3	3
b	0.5	1.5

2.8 CONFIRMATION AND ADJUSTMENT OF MECHANISM PHASES

See Fig. 2-8-1.

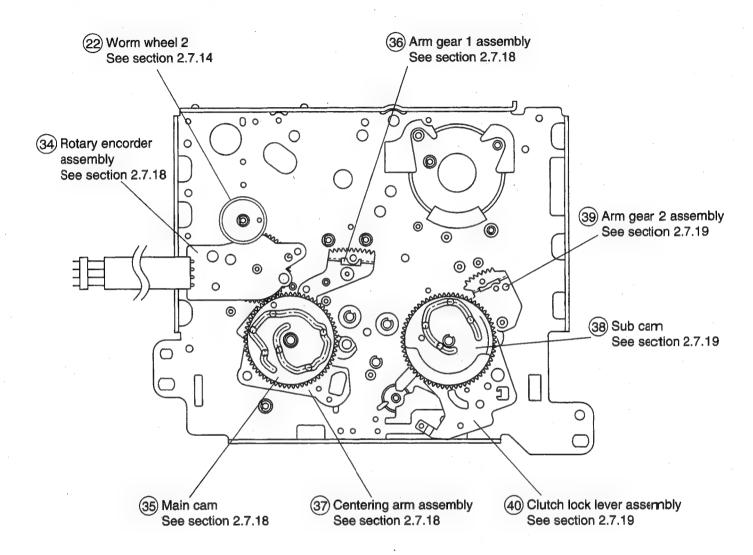


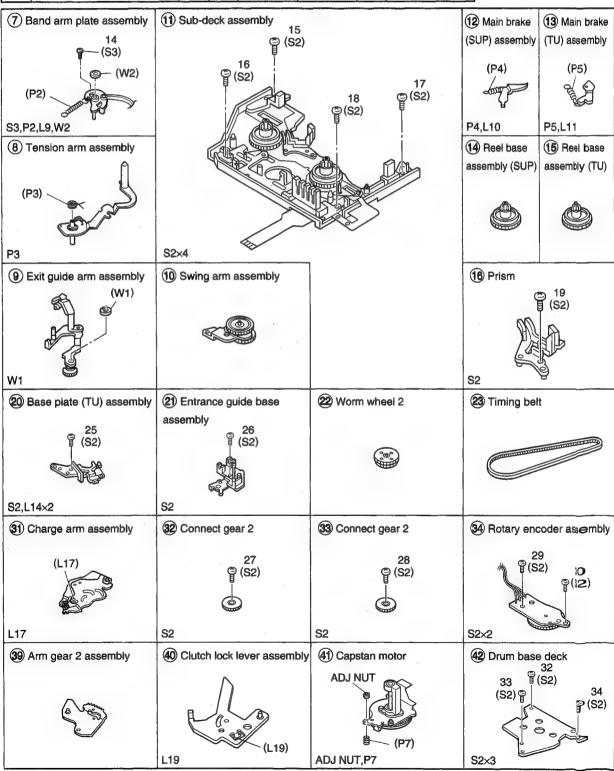
Fig. 2-8-1

2.9 MECHANISM DISASSEMBLY/ASSEMBLY SHEET

	Screw Management														
Drawing No.	A	1		2)	3 4					1) 7				
No.	1 2	3 4 5	6	7	8	9	10		12	13	14	15	16	17	18
Table	S1 S1	S2 S2 S2	S2	S2	S2	S2	S2	S2	S2	S2	S3	S2	S2	S2	S2
Application														l 	
Ref. No.	No.1		No.2					N	5.5		No.8		No	.9	
(A) Cassette ho	Cassette housing assembly							embly	,		4 R	eel co	ver ass	sembly	/
		\$1) 4	(S	2		(S2) S2×3		3 (S2)		5 (S2)	S2,L6	×2		13 (S2)	
(L4)	(L1)	(L5)		(L2)			9 52) \	Cket a	3 _		(5) Pi	inch ro	olier ar	m ass	embly
(L3)						3 Mic	ddle ca	ıtcher	assem	bly		ub-bra	ke ass	sembly	,
				10 (S2)			S2) 	2) (W		(W1)	V1)				
						(S2) (S2)					(P1)				
S×12,L1-L5						\$2×3					P1,W1,L8				
① Control plan	te		18	auide ra	ail (1	il (TU) assembly					19 Guide rail (SUP) assembly				
			S2×		21 (S2)		9(22 S2) 23 (S2)			S2,L1	(L13		24 (S2)	
L12×2	25 Reel drive	26 Push plate		Clutch Ic	nd.	28 Clu	tob los	L 20	Tensio		-		90	Droko	control
24 Center gear assembly	pulley assemb		geal	r (2)	JUN	gear (1)	ass	embly	ii con	uoi aii	"		assei	
	(W1) (W1) W1 W1			(W3)		(P6) (L15)			5)				L16) ,L16	(W1)	
35 Main cam		36 Arm gear 1	asse	mbly		37 Cel	ntering	arm	asseml	oly	38 Sı	ub car	n		
	Collar (W1)			Collar (L18)						31 (S2)					
W1		Collar				L18					S2				

	Screw Management														
16		(1	8		19	20	21)	32	33	(3	4)	38		42	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2
		1 1	 	! !					<u></u>		! ! !			l I	i I
No.11		- 1	No.1	2		No.13	No.14	No	.17	No	.18	No.19		_	

The slit washers cannot be reused once they have been removed.



2.10 DISASSEMBLY PROCEDURE LIST

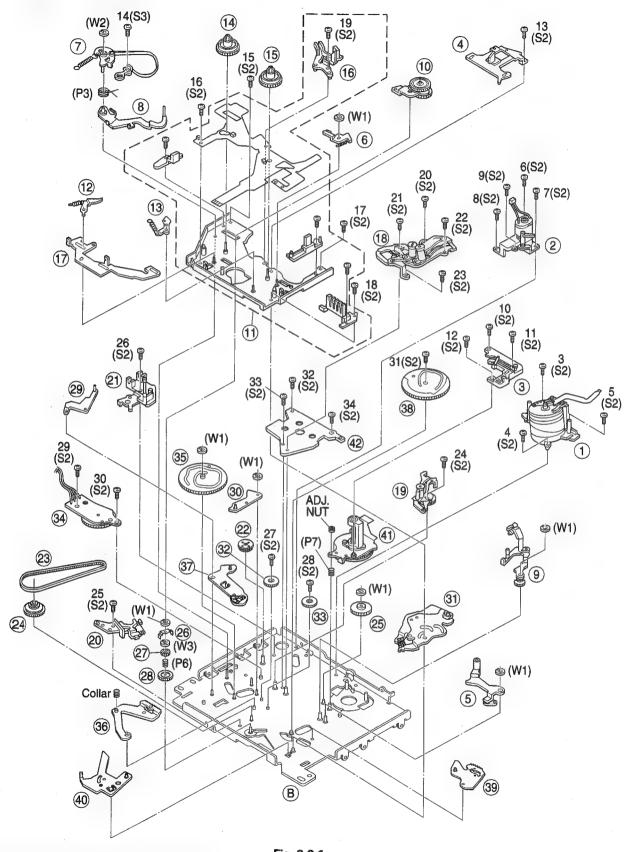


Fig. 2-9-1
Note) For the grease and oil application points,
see section 5.6, "MECHANISM ASSEMBLY PARTS LIST M 4"

2.11 TORQUE ADJUSTMENTS

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⑤) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
1	SUP backup torque adjustment	• Cassette torque meter Tension arm Band arm plate Counterclockwise	Screw (Bl	© Supply side indication of cassette torque meter ☆ 3.9 ^{1.47} _{0.49} × 10 ⁴ N m (4.0 ^{+1.5} _{0.4} gf cm) Band holder	 (1) nsert the cassette torque meter and enter play mode. (2) The supply backup torque should be as specified. (If it fluctuates, read the center value.) (3) If it is out of specification, eject the tape, remove the cassette housing, loosen the screw (black) slightly and fine-adjust the band holder. Slightly turn the band holder as follows. To increase torque: Counterclockwise To decrease torque: Clockwise. NOTE The screw securing torque should be 0.0588 N-m (0.6 kgf·cm). 4) Check the supply backup torque again and repeat the above steps until it becomes as specified.
2	TU torque check	• Cassette torque meter	Play	© Take-up side indication of cassette torque meter ☆ 4.9 139 × 10⁴N m (5.0 140 gf cm)	(1) Insert the cassette torque meterand enter play mode. (2) Ensure that the take-up torque is as specified If it is out of specification, check the assembly of the reel drive parts and the center gear assembly.

2.12 COMPATIBILITY ADJUSTMENT

2.12.1 Compatibility Adjustment Flow Chart

Fig. 2-12-1 shows the flow chart of compatibility adjustment.

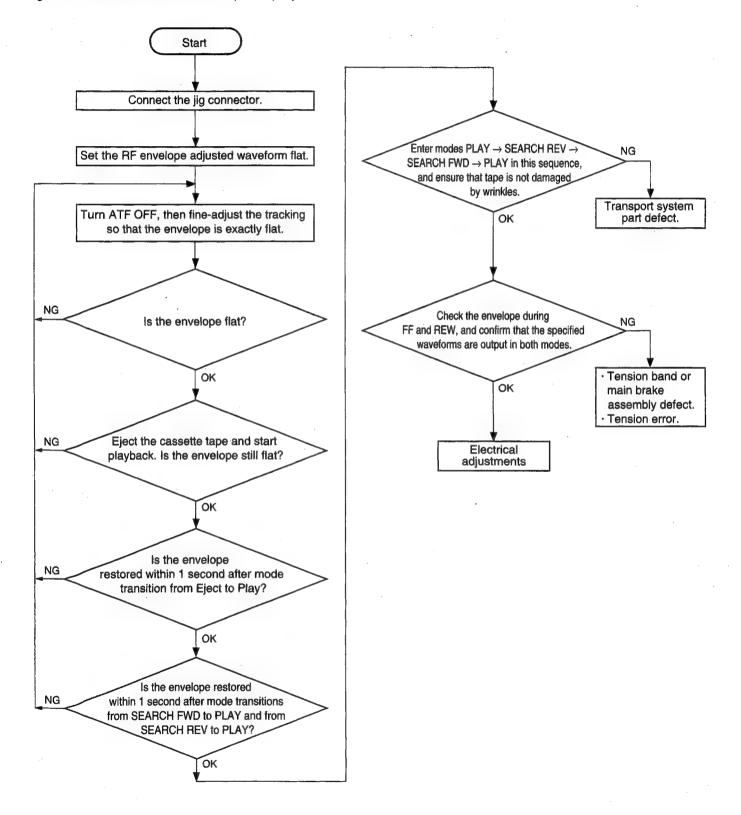


Fig. 2-12-1

2.12.2 Before Adjustments

Table 2-12-1 shows the adjustments to be enforced after servicing.

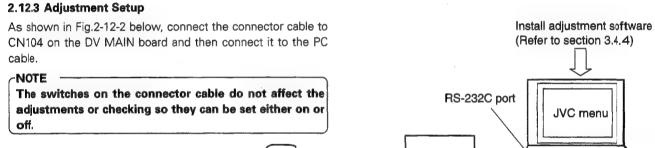
Adjustment Item Servicing	2.12.5 Linearity Adjustment	3.4.7 Play Switching Point Adjustment	3.4.8-3 Error Rate (PB EQ) Adjustment	3.4.8-1 REC Current Adjustment
Drum replacement	Note 1 Required	Required	Required	Required
Required	Note 1 Required	Not required	Check	Not required
IC901 replacement (PRE/REC amp on P/R & MDA board)	Not required	Not required	Check	Required
IC501 replacement (PB EQ on DV Main board)	Not required	Not required	Required	Not required
DV Main board replacement Note 2	Not required	Required	Required	Required

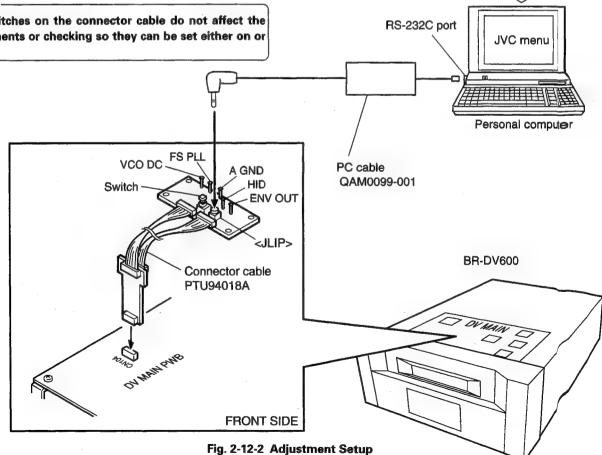
Table 2-12-1

- Note 1: Check is required after servicing or replacement related to the drum, TU/ SUP guide rails or tension.
- Note 2: After having replaced the DV Main board, be sure to write the original data in the EEPROM (IC103) of the new board. If the original data cannot be written due to communication failure, mount the original EEPROM to the new board.

The following data are written in the EEPROM (IC103) on the DV MAIN board.

- EVR adjustment value data
- Hour meter
- Warning history
- IEEE1394 ID code





2.12.4 Tape Transport Restriction The unit uses only the SUP guide roller and TU guide roller to restrict the tape transport. The tape is free (no restriction) from other parts. 2 Tension pole (a) SUP slant pole (b) Drum (c) Pinch roller (d) Pinch roller (e) TU guide roller (f) MID guide roller (g) Tu slant pole (g) Tu slant pole (g) Tu slant pole (g) Tu slant pole (g) Pinch roller (g) Exit guide pole

Fig. 2-12-3

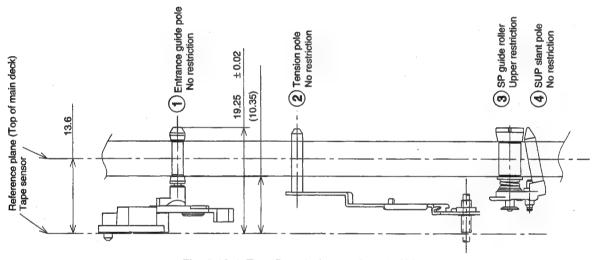


Fig. 2-12-4 Tape Restriction on Supply Side

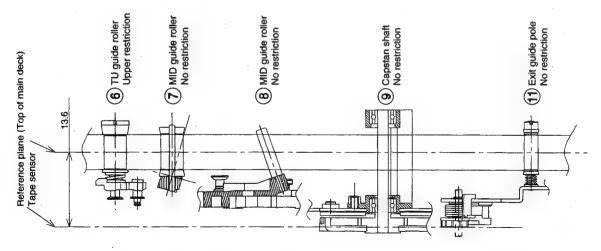
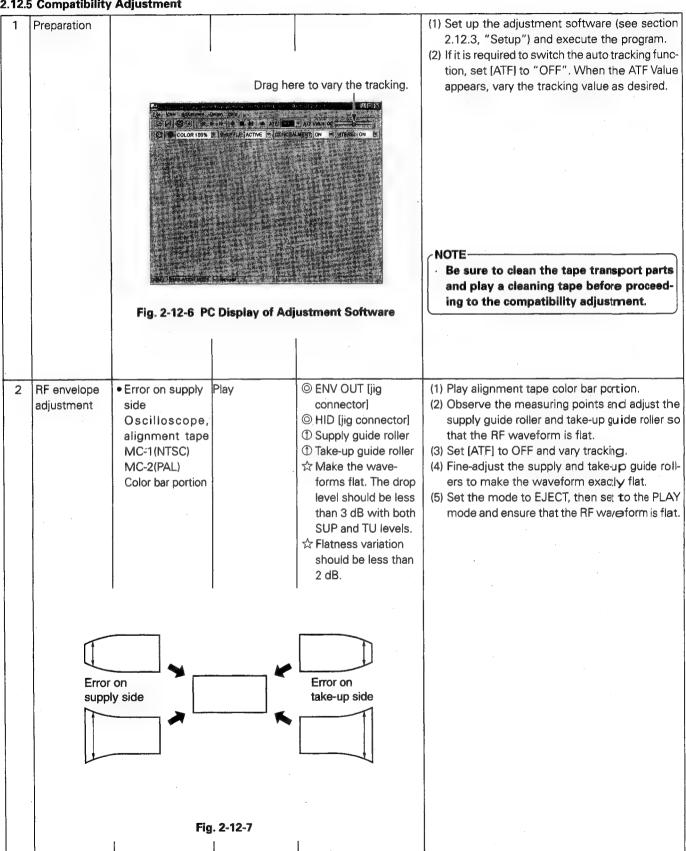


Fig. 2-12-5 Tape Restriction on Take-up Side

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

2.12.5 Compatibility Adjustment



No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	•	Adjustment procedure
-----	------	---------------------------------------	------	---	---	----------------------

	, I	Fig	. 2-12-8	· · · · · · · · · · · · · · · · · · ·	
EN	и у О ∪ Т — — — — — — — — — — — — — — — — — — —		T	MAX HIGH LOW	that the MAX output duration is more than 1/3 the HID duration. This checking should be done after completing the switching point adjustment. (5) Enter REW mode and check the same items as (3) and (4) above. (6) If the envelope is out of specification, check the tension band and main brake assembly and replace as required. Confirm the playback switching point.
5	Envelope check during FF/REW	Oscilloscope, alignment tape MC-1(NTSC) MC-2(PAL) Color bar portion	FF REW	 © ENV OUT [jig connector] © HID [jig connector] ☆A > 55μsec. ☆B ≧ T/3 	 (1) Insert the alignment tape and enter Stop mode. (2) Enter FF mode. (3) Ensure that the envelope output is present at 55 µs before the HID switching timing. (4) Check the take-up side of the envelope to see
4	Damage check	• Self-recorded/ played tape 60ME	Play ↓ Search REV ↓ Search FWD ↓ Play	 © ENV OUT [jig connector] © HID [jig connector] ☆The tape should not be damaged by wrinkle. 	 (1) Transport the self-recorded/played tape from the beginning by changing modes in order of Play → Search REV → Search FWD → Play, and ensure that wrinkles due to strong restriction by the guide rollers and guide pole are not produced on tape. (2) Perform the same check at the section near the end of tape.
3	Waveform rise check	Oscilloscope, alignment tape MC-1(NTSC) MC-2(PAL) Color bar portion	Eject →Play Search FWD →Play Search REV → Play	 © ENV OUT [jig connector] © HID [jig connector] ☆The envelope waveform should be restored within 1 sec. 	 (1) Switch the mode from Eject → Play and ensure that the envelope waveform is restored in less than 1 sec. (2) Switch the mode from Search FWD → Play and from Search REV → Play, and ensure that the envelope is restored in less than 1 sec. in both cases. (3) If the waveform does not restore in the specified period, fine-adjust the supply/take-up guide rollers as far as the envelope waveform specification is met, then restart checking from the above procedure 1 again.

SECTION 3 ELECTRICAL ADJUSTMENTS

3.1 PRECAUTIONS

Before proceeding to any electrical adjustment, it is required to confirm without fail that the objective item (function or part) is out of order. Moreover, for the item that needs exact mechanical adjustment prior to electrical adjustment, make sure that it is mechanically normal first and then proceed to electrical adjustment.

Start electrical adjustment at least 10 minutes after the VCR has been turned on.

Regarding an oscilloscope to be used for measurement, use the 10:1 probe.

3.1.1 Required tools and measuring instruments for adjustments

(1) Measuring instruments

- Oscilloscope (Dual-trace type for 100 MHz or higher frequency)
- Composite and Y/C video signal generator (LEADER 425A for NTSC or 425P for PAL, TEKTRONIX TSG-130A for NTSC or TSG-131A for PAL, or equivalent)
- Component signal generator (LEADER 425A for NTSC or 425P for PAL, TEKTRONIX TSG-130A for NTSC or TSG-131A for PAL, or equivalent)
- · Vectorscope (TEKTRONIX 520A or equivalent)
- Frequency counter (Sensitivity for 10 MHz or higher and 100 mV or lower.)
- Digital voltmeter (Capable of indicating 1 mV DC at lowest.)
- · Monitor TV
- · Audio tester
- · Personal computer

System requirements: Microsoft Windows 95/98 Pentium 133 MHz or faster, or equivalent (With a CPU of slower speed, some operations including the error rate check may not work properly.)

(2) Tools

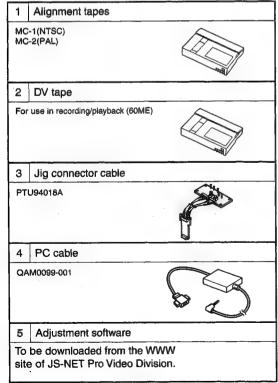


Table 3-1-1

3.1.2 Alignment tapes

MC-1/MC-2

No.	Video signal	Audio signal	Time (min.)	Application
1	Animated image	Sound of animated image	10	For check of block noise.
2	Color bars	1 kHz	10	 For adjustment of inter- changeability. For check and adjustment of playback video/audio circuit.

Table 3-1-2

3.1.3 Standard setup for adjustment

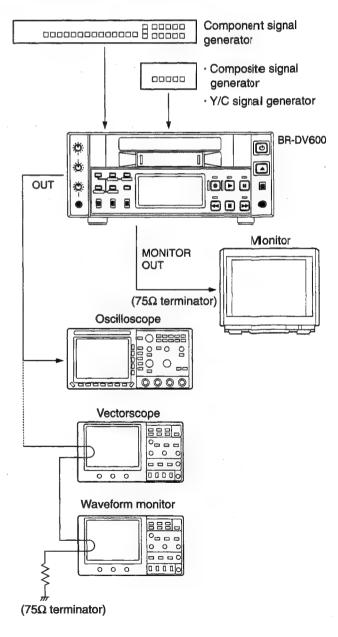


Fig. 3-1-1

3.1.4 Signals required for adjusting video system

The BR-DV600 should be adjusted using signals with the color level at 100%, setup level at 7.5% (NTSC only) and Betacam level (component signals). Be sure to check the output level from the signal generator before adjustment. If a signal is with a color level of 75% or without a setup level (NTSC only), the adjusted value will be incorrect.

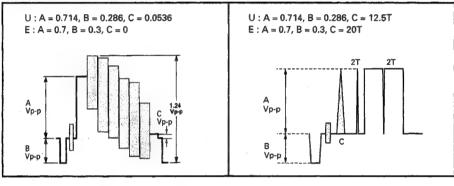
1 Composite signal

(1) Composite color-bar signal

(U: 100% Color bars with 7.5% setup)

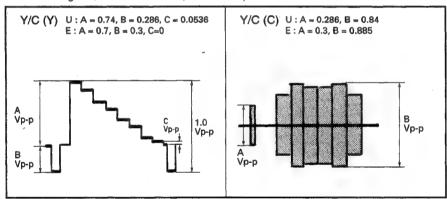
(E: 100% Color level, 0% setup)

(2) Composite pluse & bar signal



2 Y/C signal

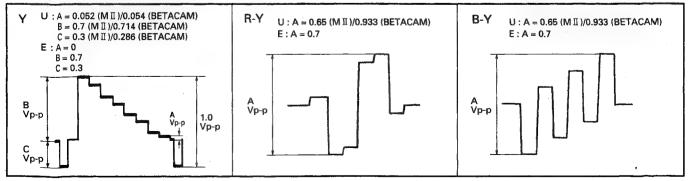
Color bars signal (100% color level, 7.5% setup level)



3 Component signals

The signals required for the adjustment are 100% chroma signal and the Betacam level. (The levels of MII are shown below as reference.)

(1) Component color-bar signal (U: 100% color bars with 7.5% setup) (E: 100% Color bars with, 0% setup)



3.1.5 Adjustment Using Different Signal Types

What is simply referred to as the color bar signal actually contains signals at various levels. Therefore, section 3.1.4 specifies the levels of the color bar signal used in adjustments together with the description of the method of adjustment when each signal is applied. In order to reduce the adjustment errors, use

the specified signals whenever possible. However, as the specified signal is not always available at actual sites, the adjustment method using a color bar signal at an 'other-than-specified level' will be described in the following.

1 Preparatory knowledge

(1) Component color bar signal

[NTSC]

The component color bar signal is available at the Betacam level or MII level. The major differences between these

specifications lie in the difference in the ratio between the white and sync levels of the Y signal and the difference in the level of the color difference signals.

	Ratio Between White level: Sync level	Color difference signal level		
Betacam	10:4 (0.714 V:0.286 V)	75%. The level with 7.5% setup level is set to 0.7 Vp-p.		
Millevel	7:3 (0.7 V:0.3 V)	100%. The level without 0% setup to 0.7 Vp-p.		

Table 3-1-3

In addition, each signal includes large variations such as signals at the 75% or 100% level, signals with or without the 7.5% setup level. The levels of the color difference signals can be calculated as follows.

[Level of color difference signal at MII level 100% with setup 7.5%] 0.7 Vp-p \times (100% - 7.5%)/100% = 0.648 Vp-p [Level of color difference signal at MII level 75%, with setup 0%] 0.7 Vp-p \times 75%/100% = 0.525 Vp-p

The following table shows the lists of levels of various signal types.

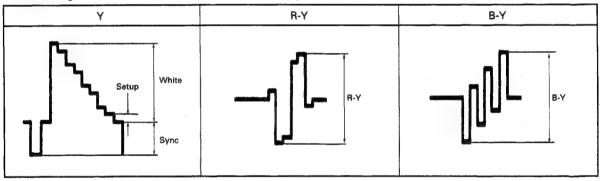


Fig. 3-1-5

			١	R-Y	B-Y		
Туре		Y level [mVp-p]	White [mV]			R-Y level [mVp-p]	B-Y level [mVp-p]
MII	100/0/100/0	1000	700	300	0	700	700
	100/7.5/100/7.5	1000	700	300	52.5	648	648
	100/0/75/0	1000	700	300	0	525	525
	100/7.5/75/7.5	1000	700	300	52.5	486	486
β САМ	100/0/100/0	1000	714	286	0	1009	1009
	100/7.5/100/7.5	1000	714	286	53.6	933	933
	100/0/75/0	1000	714	286	0	757	757
	100/7.5/75/7.5	1000	714	286	53.6	700	700

Table 3-1-4(a)

[PAL]
The PAL signal does not use the setup level. Only the EBU type component signals are available.

			Y		R-Y	B-Y
Туре		Y level [mVp-p]	White [mV]	Sync [mV]	R-Y level [mVp-p]	
EBU 100/0/100/0		1000	700	700	700	700
l	100/0/75/0	1000	300	300	525	525

Table 3-1-4(b)

(2) Y/C and composite color bar signals

The Y/C and composite color bar signals also include a variety of signals depending on the setup levels and chroma signal levels. While the S-VHS and VHS format VCRs use a color bar signal at the 75% level with 7.5%

setup level, the digital VCR uses a color bar signal at the 100% with 0% setup level. Keep in mind that the color level changes depending on the setup level.

INTSCI

Туре	Y level [mVp-p]	White [mV]	Sync [mV]	Setup [mV]	Burst [mVp-p]	YL/B [mVp-p]	CY/R [mVp-p]	G/MG [mVp-p]
100% level, setup 0%	1000	714	286	0	286	640	908	848
100% level, setup 7.5%	1000	714	286	53.5	286	592	840	785
75% level, setup 0%	1000	714	286	0	286	480	681	636
75% level, setup 7.5%	1000	714	286	53.5	286	444	630	589

[PAL]

Туре	Y level [mVp-p]	White [mV]	Sync [mV]	Burst [mVp-p]	YL/B [mVp-p]	CY/R [mVp-p]	G/MG [mVp-p]
100% level	1000	700	300	300	627	885	827
75% level	1000	700	300	300	471	664	620

YL/B: Yellow and Blue level. CY/R: Cyan and Red level. G/MG: Green and Magenta level. Table 3-1-5

2 Adjustments on the BR-DV600

The BR-DV600 has been designed to input and output multiformat signals. The input/output level is at the Betacam level, 100% color level and 7.5% setup level with the U version, or the EBU 100% color level with the E version.

By adjusting the output level of the VIDEO I/O board so that it is identical to the input level, adjustments will be possible even with signals at different levels.

(1) Y level adjustment (Nos. 2, 3, 5 and 6, Service Manual 3.2.2)

When a color bar signal contains the Y100% white level, the signal can be adjusted as indicated by the service manual. The setup level does not affect the overall video level.

- (2) Color level adjustment (Service Manual 3.2.2)
 - The level is variable depending on whether the color level is 75% or 100% and whether the setup level is used or not
 - · Composite output level .(Nos. 4 and 7)

The signals can be adjusted by setting the output signal level identical to the input signal level.

First, apply the input signal to a vector scope and adjust the GAIN potentiometer so that the signal components are accommodated within "\mathbb{\text{\text{\text{-}}}}".

Then, apply the same signal or the Y/C signal to the BR-DV600 and adjust so that the output signal is identical to the input signal.

- Burst level adjustment (Nos. 16 and 18)
 The burst level is common for any type of signal. There will be no problem if it is adjusted to 0.286 Vp-p (NTSC, 0.3 Vp-p with PAL).
- Component (R-Y/B-Y) output level (Nos. 8 and 9)
 See Table 3-1-4 and adjust to the level of the corresponding input signal of the Betacam signal. With NTSC, if the color level is 75% and setup level is 7.5%, the level should be 0.7 Vp-p.
- (3) Timing adjustment (Nos. 10, 11, 13, 14, 15 and 17, Service Manual 3.2.2)

Adjustments are basically possible with signals other than the signal at the Betacam level, 100% color, 0% setup.

N	o. Item	Measuring instruments & Input signals	Mode	Measuring point (©) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure

3.2 Adjustments on the VIDEO I/O Board

3.2.1 Audio Adjustments

1	Audio output adjustment	Audio tester 1 kHz/-8 dBs	EE	© AUDIO OUT ① VR18 (CH-1): 8A VR17 (CH-2): 8B ☆ -8 dBs	 (1) Apply 1 kHz/-8 dBs signal to AUDIO IN. (2) Set the REC LEVEL potentiometer on the front panel to the center position. (3) Adjust VR18 (CH-1) and VR17 (CH-2) so that the audio outputs are as specified. (4) Ensure that the LCD level meter indicates -20 dB.
	1				

1	Preparation				Set the video circuitry switch as follows. (U version only). [Service menu] 125: SET UP ON
	·				
2	AGC level adjustment	Oscilloscope Y/C input Color bar signal	EE	⊚ TP13: 8D ① VR1 (AGC): 13D ☆ 1.0 Vp-p	(1) Apply color bar signal to Y/C IN. (2) Adjust VR1 so that the Y level is as specified.
	J	 	1.0 Vp-p		
3	VIDEO Y level adjustment	Oscilloscope Y/C input Color bar signal	EE	© VIDEO OUT (75 Ω terminated) ① VR12 (VIDEO Y): 9D ☆ 1.0 Vp-p	(1) Apply color bar signal to Y/C IN. (2) Adjust VR12 so that the Y level is a s specified
	1.0 Vp-p				

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⑤) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
4	Video chroma level adjustment	Vectorscope Y/C input Color bar signal del)	EE [E Model]	© VIDEO OUT (75Ω terminated) ① VR11 (VIDEO C): 9B ☆ Color components are located within "⊞" of the vectorscope. (Adjust to the same level as the input signal.)	 (1) Apply color bar signal from the signal generator to the vectorscope and ensure that components are located within "\(\overline{\overline{\text{T}}}\). If not, adjust the GAIN potentiometer of the vector scope to accommodate them inside "\(\overline{\overline{\text{T}}}\). (2) Apply the Y/C color bar signal from the same signal generator to Y/C IN. (3) Adjust VR11 so that the VIDEO output level is as specified.
5	Component Y level	Oscilloscope Y/C input	EE	© Component Y OUT (75Ω terminated)	(1) Apply color bar signal to Y/C IN. (2) Adjust VR13 so that the Y level is as specified.
	adjustment	• Color bar signal	1.0 Vp-p	① VR13 (CPN Y): 6C ☆ 1.0 Vp-p	
6	Y/C SEP Y level adjustment	Oscilloscope LINE input Color bar signal	EE	 VIDEO OUT (75Ω terminated) Ψ VR2 (Y/C Y): 13I ∴ 1.0 Vp-p 	(1) Apply color bar signal to LINE IN. (2) Adjust VR2 so that the Y level is 1.0 Vp-p.
	1.0 Vp-p				

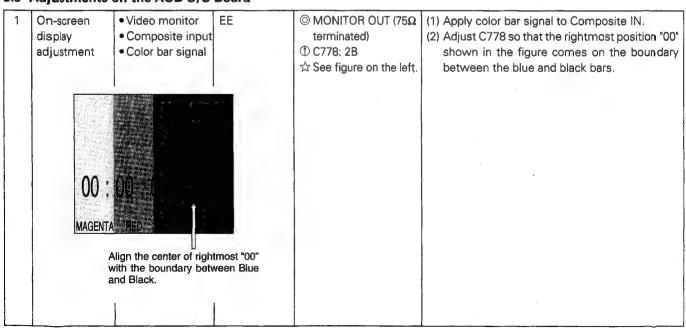
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (©) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
7	Y/C SEP chroma level adjustment	Oscilloscope LINE input Color bar signal Included the state of the s	E Model]	 ○ VIDEO OUT (75Ω terminated) ① VR21 (Y/C C): 12H ☆ Color components are located within "⊞" of the vectorscope. (Adjust to the same level as the input signal.) 	 (1) Apply a composite color bar signal from the signal generator to the vector scope and ensure that components are located within "\(\overline{\overline{\text{H}}}\)". If not, adjust the GAIN potentiometer of the vectorscope to accommodate them inside "\(\overline{\overline{\text{H}}}\)". (2) Apply color bar signal to Y/C IN. (3) Adjust VR21 so that the components are located within "\(\overline{\overline{\text{H}}}\)".
8	R-Y level adjustment 0.93 Vp-p (U Model) 0.7 Vp-p (E Model)		EE	 R-Y OUT (75Ω terminated) VR20 (R-Y LEV): 3H 0.93 Vp-p (U Model) 0.7 Vp-p (E Model) 	(1) Apply color bar signal to Y/C IN. (2) Adjust VR20 so that the R-Y level is as specified. (Note) The adjustment levels shown are those obtained when the input Y/C color bar signal level is at 100% color, setup 7.5%. When a color bar signal with 75% color, setup 7.5% is input, the adjustment target value is 0.7 Vp-p. With PAL, when a 75% color signal is input, the adjustment target value is 0.525
9	B-Y level adjustment 0.93 Vp- (U Mode 0.7 Vp-p (E Mode)	EE	⊕ B-Y OUT (75Ω terminated) ⊕ VR19 (R-Y LEV): 3F ☆ 0.93 Vp-p (U Model) ☆ 0.7 Vp-p (E Model)	(Note) (Note) The adjustment levels shown are those obtained when the input Y/C of or bar signal level is at 100% color, setup 7.5%. When a color bar signal with 75% color, setup 7.5% is input, the adjustment target value is 0.7 Vp-p. With PAL, when a 75% color in gnal is input, the adjustment target value is 0.525 Vp-p.

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (©) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
10	R-Y delay adjustment Y OUT R-Y OUT	Oscilloscope LINE input Pulse & bar signal 12.5T (PAL : 20T) N	EE	© Component Y OUT (75Ω terminated) R-Y OUT (75Ω terminated) ① VR4 (R-Y DL): 4G ☆ 0 ±40 nsec.	 (1) Apply pulse & bar signal to LINE IN. (2) Observe Y OUT and B-Y OUT of the component signal using a 2-trace oscilloscope, and adjust the delay between the Y and R-Y signals at the pulse & bar signal section with 12.5T modulation.
11	B-Y delay adjustment Y OUT B-Y OUT	Oscilloscope LINE input Pulse & bar signal 12.5T (PAL : 20T) M	EE	© Component Y OUT (75Ω terminated) B-Y OUT (75Ω terminated) ① VR3 (B-Y DL): 4F ☆ 0 ±40 nsec.	(1) Apply pulse & bar signal to LINE IN. (2) Observe Y OUT and B-Y OUT of the component signal using a 2-trace oscilloscope, and adjust the delay between the Y and R-Y signals at the pulse & bar signal section with 12.5T modulation.
12	NO INPUT FSC adjust- ment	 Frequency counter Component input No input signal 	EE	© TP24: 2I ① VR15 (fsc): 2I ☆ 3.579545 MHz ±20 Hz (U Model) ☆ 4.433619 MHz ±20 Hz (E Model)	(1) Set the component input mode and apply no signal.(2) Adjust VR15 to count the specified value.
13	H phase adjustment VIDEO OUT From the midp of the negative	Oscilloscope Component input Color bar signal 5.3 µsec (U Mo 5.6 µsec (E Mo oint going edge of SYNC.		⊚ VIDEO OUT (75Ω terminated) ① VR22 (EE H): 2B ☆ 5.3 µsec. (U Model) ☆ 5.6 µsec. (E Model)	(1) Apply color bar signal to COMPONENT IN. (2) Adjust VR22 so that the time from the negative going of SYNC to the start of burst is as specified.

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (©) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
14	Encoder leak adjustment	Oscilloscope Component input Color bar signal	EE	VIDEO OUT (75Ω terminated)VR7 (CPN LK1): 5J VR8 (CPN LK2): 5J ☆ Minimum leak	Apply color bar signal to COMPONENT IN. Adjust VR7 and VR8 alternately to minimize the leak of the VIDEO OUT waveform.
	Minimize leak.				
15	Encoder delay adjustment	Oscilloscope Component input Pulse & bar signal	EE	© VIDEO OUT (75Ω terminated) ① VR5 (CPN DL1): 9J VR6 (CPN DL2): 9I ☆ Left-right symmetrical	 (1) Apply pulse & bar signal to COMPONENT IN. (2) Adjust VR5 and VR6 so that the waveform of the Modulate section of the pulse & bar signal is symmetrical.
	1	NG C	DK Z	NG	
		12.5T (PAL : 20	OT) MOD section		
16	Encoder chroma level adjustment	Vectorscope Component input Color bar signal	EE	VIDEO OUT (75Ω terminated) VR10 (CPN LEV): 3I ☆ 0.286 Vp-p (U Model) ☆ 0.3 Vp-p (E Model)	(1) Apply color bar signal to COMPONENT IN.(2) Adjust VR10 so that the burst level is as specified.
	Burst signal 0.286 Vp-p (U Model) 0.3 Vp-p (E Model)				

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
17	PB H timing adjustment	OscilloscopeComponent inputColor bar signal	Self-record/ play	© VIDEO OUT (75Ω terminated) ① VR16 (PB H): 2C ☆ There shall be no defect in SYNC.	(1) Apply color bar signal to COMPONENT IN.(2) Record and play back a signal and adjust VR16 so that there is no defect in SYNC.
	_	No defec	ot.		
18	Chroma output level adjustment	Oscilloscope Y/C input Color bar signal	EE	© C OUT of Y/C OUT (75Ω terminated) ① VR23 (C OUT LEV): 9B ☆ 0.286 Vp-p (U Model) ☆ 0.3 Vp-p (E Model)	(1) Apply color bar signal to Y/C IN.(2) Adjust VR23 so that the burst level at the C output of Y/C OUT is as specified.
To come to the come of the com	. 0.286Vp-p (U-Model 0.3Vp-p(E)			

3.3 Adjustments on the AUD S/S Board



3.4 DV ADJUSTMENTS (USING ADJUSTMENT SOFTWARE)

3.4.1 Precautions

- (1) The adjustments of the DV circuit (DVC Unit) of this model require a PC. These adjustments are necessary after replacement of the following parts.
 - EEPROM (IC103 on DV Main board)
 - Mechanism parts

In case of a problem with the electrical circuit, be sure to identify the point of the trouble first by using measuring instruments. Do not proceed to repair, replacement or adjustment unless the location of the trouble has been identified.

- (2) When observing a TP on a chip, avoid applying stress by using an IC clip, etc. In order to prevent the pattern from being peeled off when replacing a chip part, particularly in the case of an IC, remove the solder completely before removing the part.
- (3) The connectors tend to be broken easily. Be careful when unplugging or plugging a wire.
- (4) Before starting any adjustments, be sure to save the EEPROM data in a PC file for use as backup data in case of an adjustment failure (see section 3.4.12).
- (5) When the adjustment software is run, a tape can be recorded even if its REC SAVE tab is set to "SAVE". Be careful not to record anything onto an alignment tape by mistake.
- (6) When the adjustment software is run, there is any limitations of VCR operations (see section 3.4.15).

3.4.2 Equipment Required for Adjustments

- ① PC (Windows machine. Recommended CPU: Pentium 133 MHz or more)
- ② Color TV monitor
- 3 Oscilloscope (2-trace, 100 MHz or more)
 - * 300 MHz or more recommended.
- 4 Digital voltmeter
- (5) Frequency counter (with threshold level adjustment)
- 6 Tape for use in recording/playback (JVC ME60)
- 7 Cleaning tape (PGZ 02641)

3.4.3 Setup for PC Adjustment

Note: This switch is not used with the adjustments of the BR-DV600.

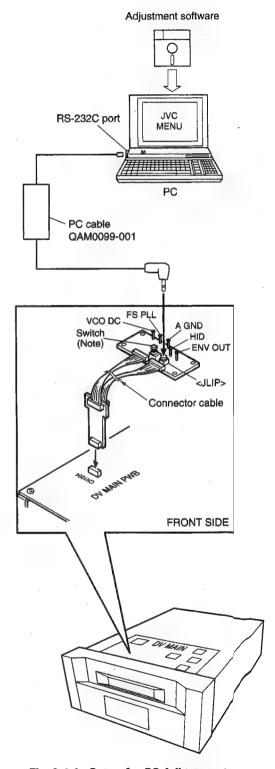


Fig. 3-4-1 Setup for PC Adjustment

3.4.4 Installing the Adjustment Software

Download the adjustment software from the professional video products division homepage of JS-NET and run "Setup.exe". "Professional DV Adjustment" will be created in "Program" under the Start menu.

3.4.5 Operating the Adjustment Software

1. Startup

Execute "Professional DV Adjustment" after operate on of BR-DV600. When the following screen appears, click <OK> because the adjustment software automatically reads the

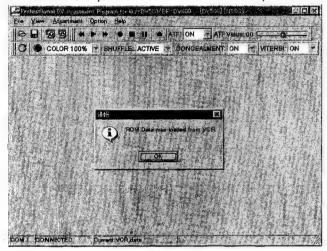


Fig. 3-4-2

The following screen appears when [System Option...] under the [Option] tab is clicked, or the first time that the software is started up. Select the "TV System" and "Model" and click <OK>. This setting is also operative during the next startup. (Select "NTSC" or "PAL" and "BR-DV600".)

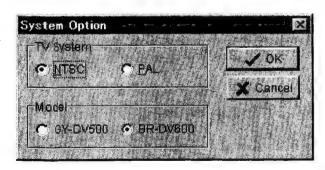


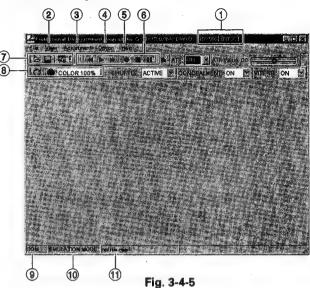
Fig. 3-4-3

If the set "TV System" differs from the setting in the adjustment software, the following warning message appears. Set "TV System" correctly. If the IEEE 1394 ID is not set, the message appears too. Set the ID correctly. (See 3.4.13)



Fig. 3-4-4

2. Function description



1 TV System and Model window

Shows the TV system and model selected for the software in [System Option...].

② [View] tab

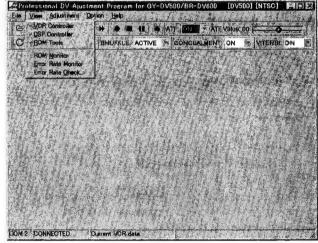


Fig. 3-4-6

- VCR Controller " ⑥ "
- DSP Controller " ⑧ "
- ROM Tools " 7"
- ROM Monitor
- Error Rate Monitor
- Error Rate Check

Switch each item ON or OFF.

The details will be described later.

3 [Adjustment] tab

- Adjustment Explorer (Adjustment menu)
- Active <u>Head Cleaner Adjustment</u>
 Forced operation mode for use in adjusting the position of the active head cleaner installation. (See 3.7.14.)

Switch each item ON or OFF.



Fig. 3-4-7

4 [Option] tab



Fig. 3-4-8

- COM Port selection
 From COM1 to COM4, select the COM port to which
 the communication cable is connected.
- System Option...
 Select the TV signal format and the model of the connected VCR.
- IEEE1394 ID Setting
 ID setting utility of the IEEE1394 standard. (See 3.4.13.)
- Emulation Mode ON/OFF
 The emulation mode makes it possible to use the adjustment software even when communication with the VCR is not available. As the following window is displayed in case of a communication error, check "Enter the Emulation Mode".

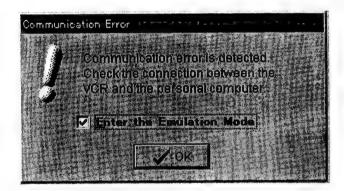


Fig. 3-4-9

- (5) [Help] tab

 Displays the version information of the adjustment software.
- (6) VCR Controller Controls the VCR operations.
- ROM Tools
 Used to check, save, print, modify the memory in the EEPROM (IC103 on DV Main board) or to initialize it. (See 3.4.12.)
- (8) DSP Controller Used to control the TV signal generator in the DVC Unit, switch SHUFFLE, CONCEALMENT and VITERBI ON/OFF. Clicking "\(\tilde{\Omega}\)" resets them to the defaults.
- (9) COM port display Shows the COM port in use.
- (1) Communication status display

 Shows one of the following messages according to the communication status.

 CONNECTED: Normal communication

UNKNOWN: Communication error EMULATION MODE: In emulation mode

(1) ROM file display

Shows the file name or "Current VCR data" (shows when the ROM data of VCR is loaded))while a ROM tool reads EEPROM data. Clicking [ROM Monitor] under the ② [View] tab displays the data contents.

3.4.6 Common Operations for Adjustments

Note: Before adjustment, be sure to save the EEPROM data in a PC file as the backup for use in case of adjustment failure. (See 3.4.12.)

(1) Under the [Adjustment] tab, check [Adjustment Explorer].

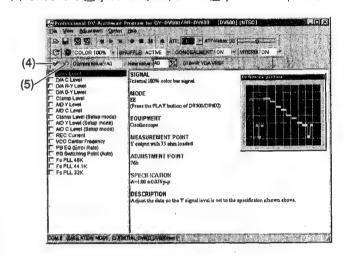


Fig. 3-4-10

- (2) Click the desired adjustment items.
- (3) To monitor the video output from the DVC Unit, insert the recording tape and press the PLAY button of the operation switches of the front panel. If the color bar signal has been recorded in the DVC Unit, the monitor screen becomes as shown below (no color output), but this is not a malfunction.



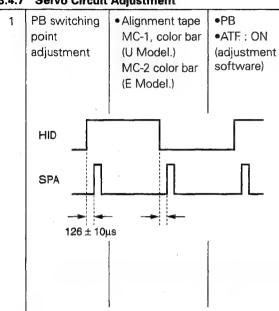
Fig. 3-4-11

- (4) After completing each adjustment item, clickthe e "√" marking, then switch the set OFF.
- (5) To cancel the adjutment, click the "\times" marking.

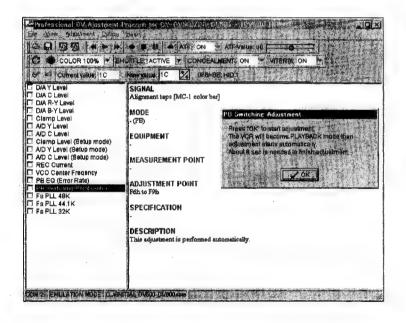
 Note: If any adjustment item is run, another lerm cannot be selected without the previous item is in shed (cliking "\sqrt" marking) or canceled (clicking "\times" marking).

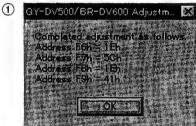
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
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3.4.7 Servo Circuit Adjustment



- Automatic adjustment
- Adjustment is performed automatically so that the timings of HID and SPA signals are as shown below.
- (1) Cue up to the color bar portion of alignment tape.
- (2) Click [PB Switching Point (Auto)].
- (3) Click [OK] to start automatic adjustment.
- (4) Message "Complete" (1) is displayed when the adjustment has completed successfully. If it is unsuccessful, the message "Adjustment failed" (2) is displayed; try adjustment again.
- (5) Eject the alignment tape.





"Complete" message

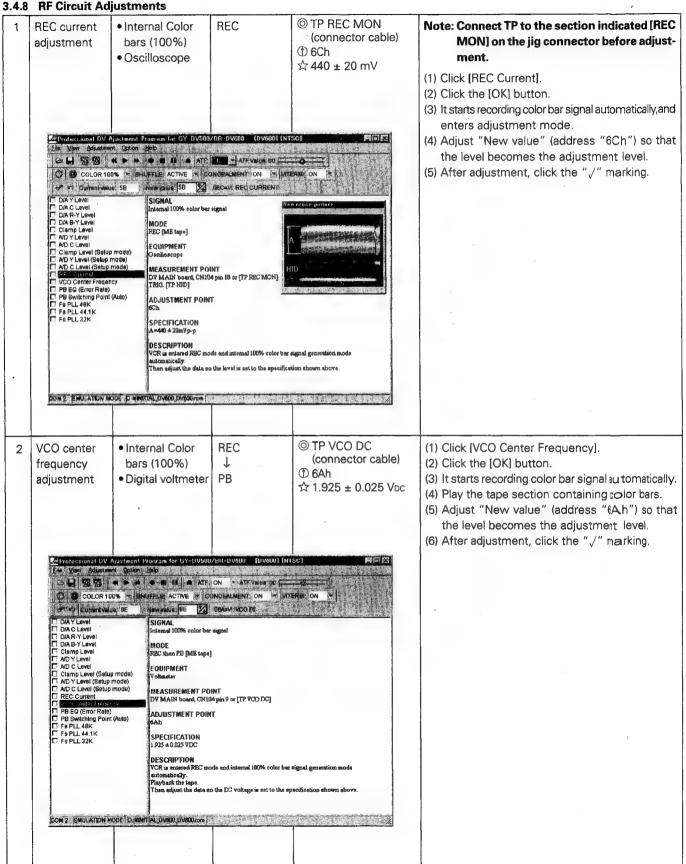
2

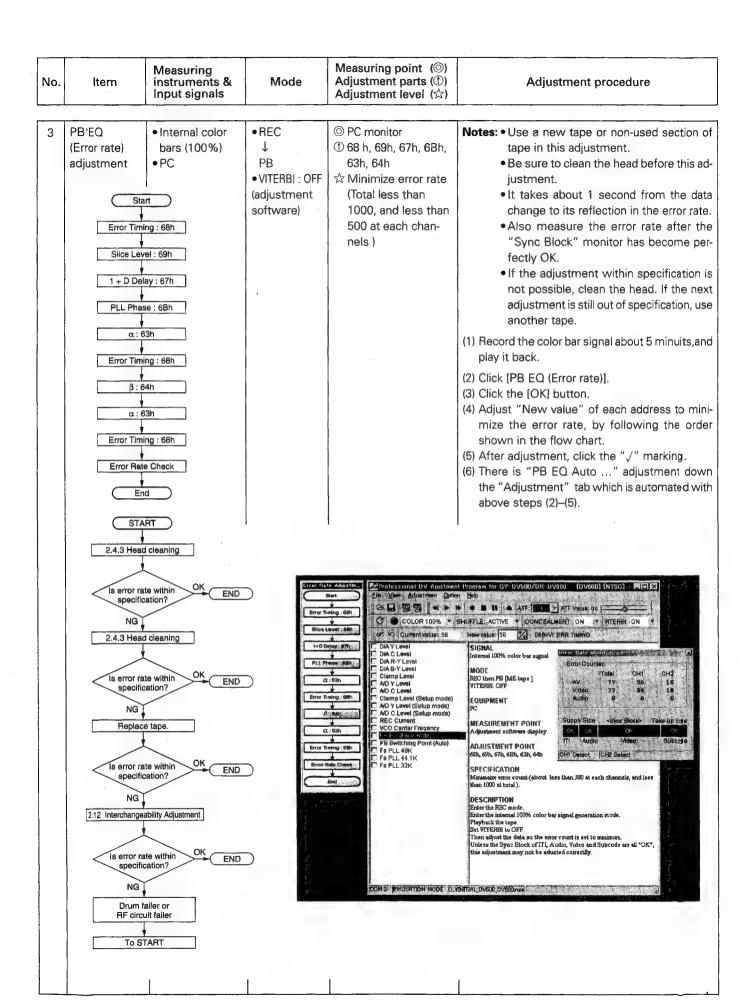


"failed" message

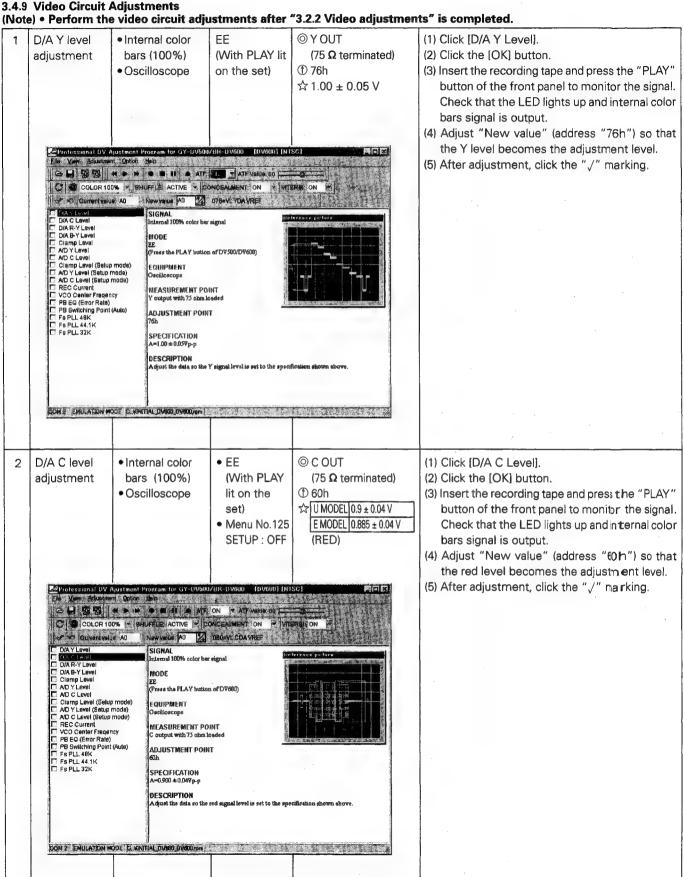
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

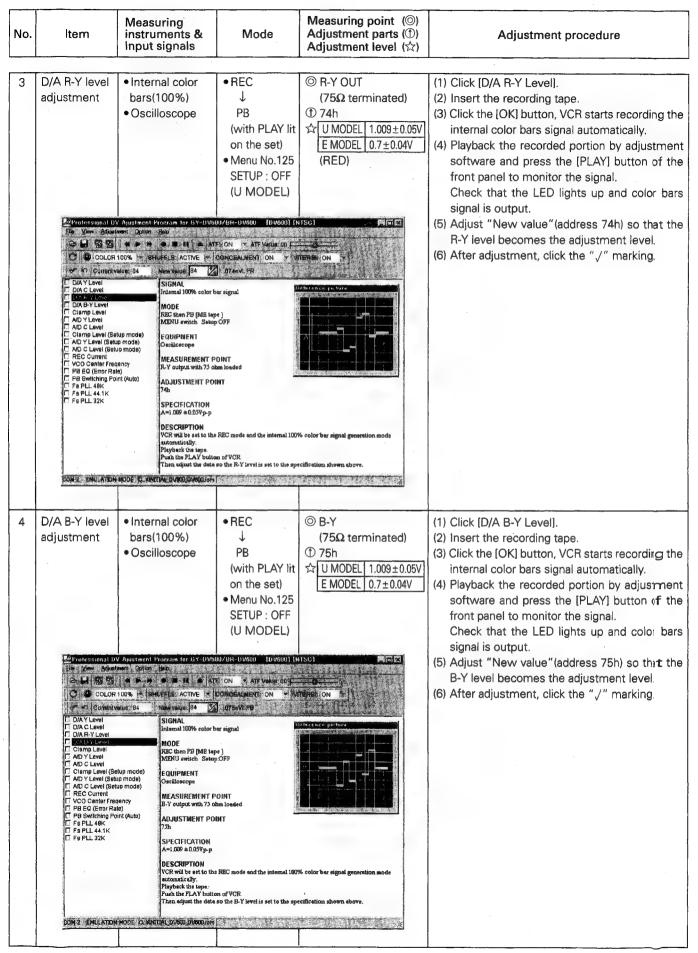
3.4.8 RF Circuit Adjustments

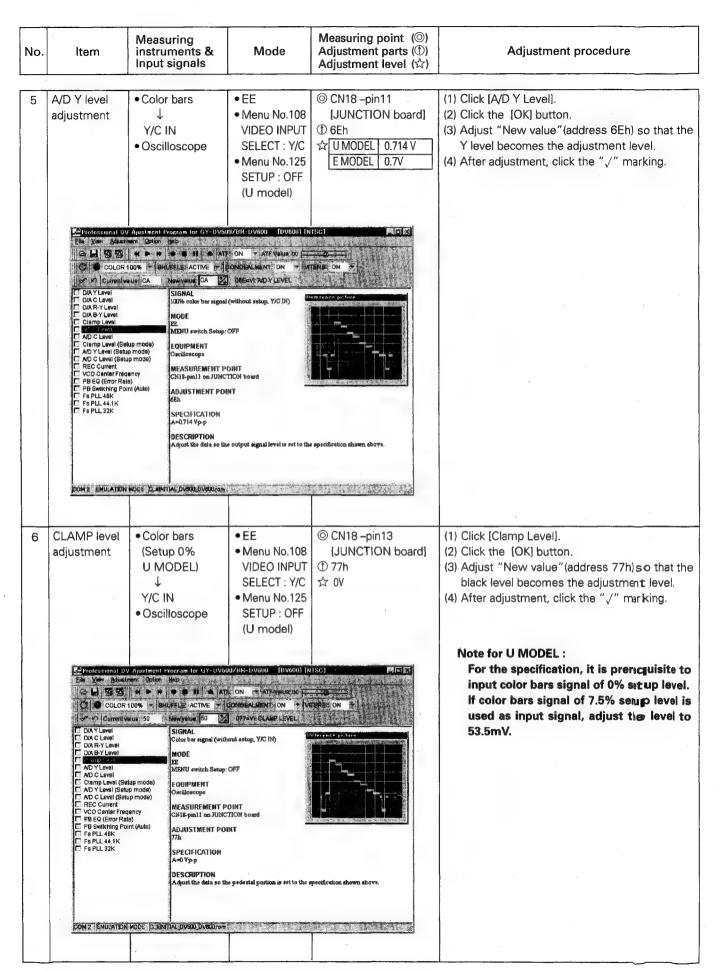


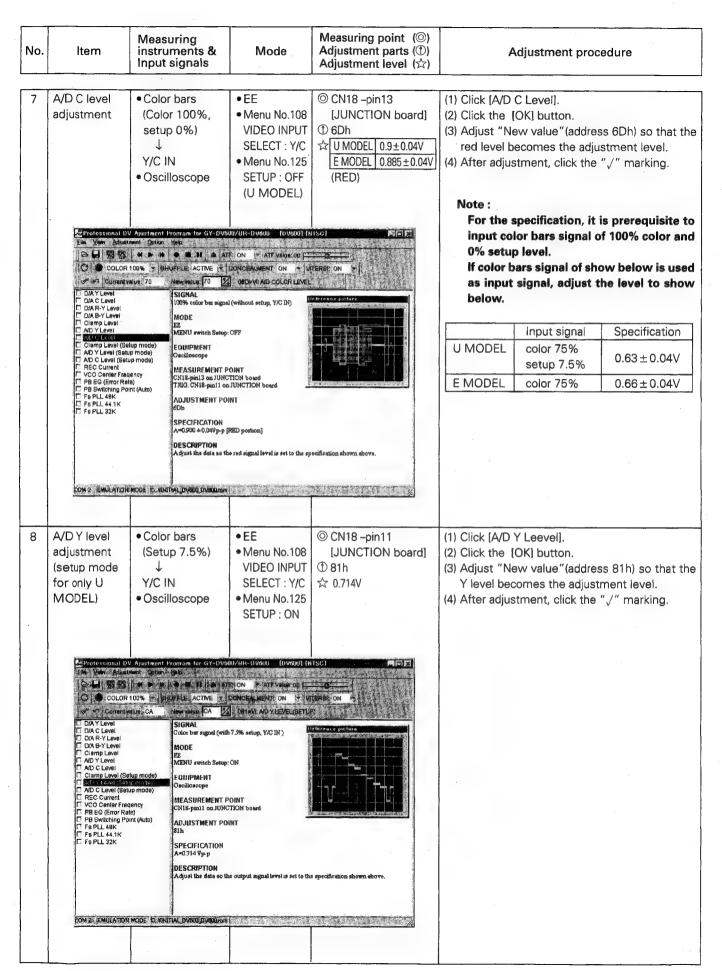


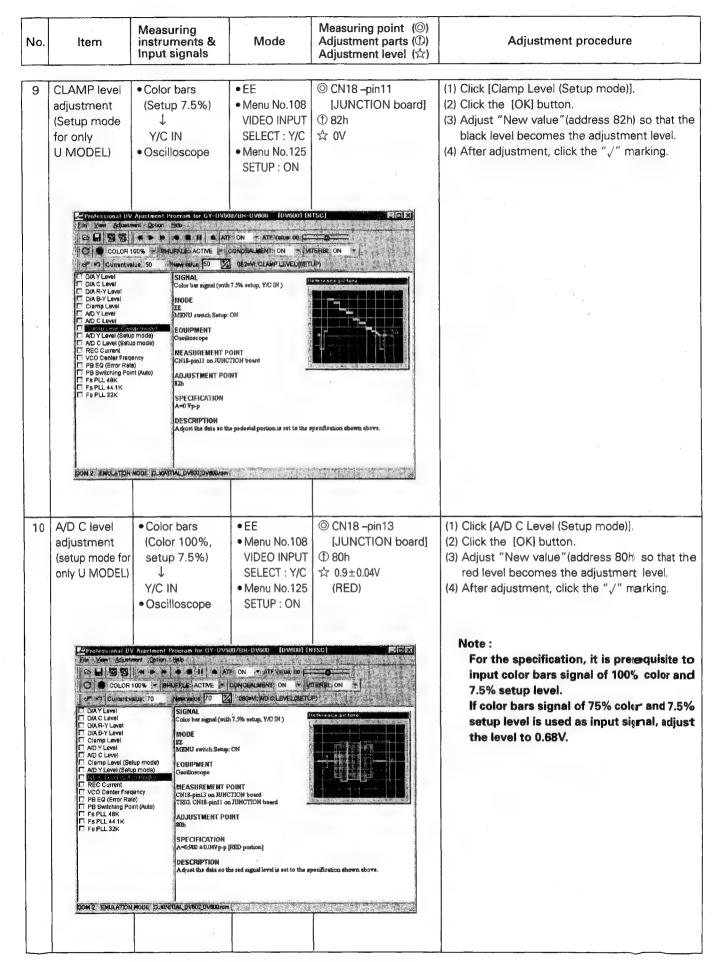
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------











No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---------------------------------------	------	---	----------------------

3.4.10 Audio Circuit Adjustments

(Note)

• Perform the audio circuit adjustments immediately after turning the main unit ON.

		·	,		
1	The COLOR 10% Section 10% of the Color 1	No signal Frequency counter Counter - Frequency counter		© TP FS PLL (connector cable) ① 62h ☆ 12.288 ± 0.02 MHz	 (1) Click [Fs PLL 48k]. (2) Click the [OK] button. (3) Adjust "New value" (address "62h") so that the frequency level becomes the adjustment level. (4) After adjustment, click the "\/" marking.
2	Fs PLL (44.1k) adjustment	No signal Frequency counter	EE	© TP FS PLL (connector cable) ⊕ FCh ☆ 11.2896 ± 0.11 MHz	 (1) Click [Fs PLL 44.1k]. (2) Click the [OK] button. (3) Adjust "New value" (address "FCh") so that the frequency level becomes the adjustment
	GT COLOR from migration of participation of the color of	THE ACTION CONTROL OF THE PROPERTY OF THE PROP	reflection them there.	:	level. (4) After adjustment, click the "√" marking.
3	Els yes Meanment Solon C DO T Lent C DO T	No signal Frequency Counter Docant Inter 18 81 19 (ARLON STRY/PRESON FREEL ACTIVE CONSEQUENT) Now have 10 2 00 0-82 FS PL 22 STORMA MODE STREAM MADE ALLON FREEL ACTIVE FOR THE CONTRACT OF THE TREE FOR THE TREE FO	enfection above derve.	© TP FS PLL (connector cable) ① FDh ☆ 8.192 ± 0.08 MHz	 (1) Click [Fs PLL 38k]. (2) Click the [OK] button. (3) Adjust "New value" (address "FDh") so that the frequency level becomes the adjustment level. (4) After adjustment, click the "√" marking.

3.4.11 Error Rate Monitoring

The error rate-monitoring screen is displayed when the PB EQ is adjusted or the error rate is measured. The screen shows the error rate every second during PB EQ adjustment. With the error rate measurement, it shows the error rate measurement result after about 20 seconds of measurement.

(1) Error Rate Monitoring

The following screen appears when [View] under the [Error Rate Monitor] tab is clicked.

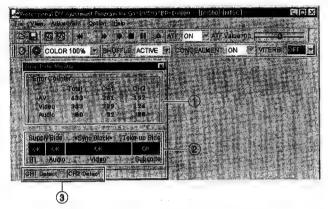


Fig. 3-4-12 (Error Rate Monitoring Screen)

1) Error rate display window

Shows the error rate per video/audio or CH-1/CH-2 as well as the total error rate.

(2) Sync block counter display window

Shows the amount of sync blocks played by the head as a percentage. When it reaches 100%, "OK" is displayed and a graph is displayed bule. The error rates are measured when this display shows "OK".

3 Error rate measurement status display window

Depending on the load to the PC, "CH1 Reset" or "CH2 Reset" may be displayed frequently. In such a case, leave the PC idle (without operating the mouse, etc.). The error rates are measured when "Reset" is not displayed (when "CH1 Detect" and "CH2 Detect" is displayed).

(2) Error Rate Measurement

The following screen appears when [View] under the [Error Rate Check] tab is clcked. To start the measurement, click [Start] button. After a while the measurement result is displayed "①".

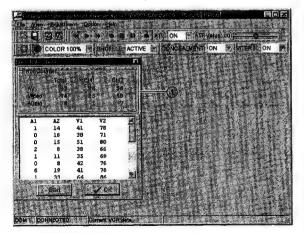


Fig. 3-4-13 (Error Rate Measurment)

3.4.12 ROM Tools

This section describes the seven functions of the ROM Tools in processing the EEPROM data.

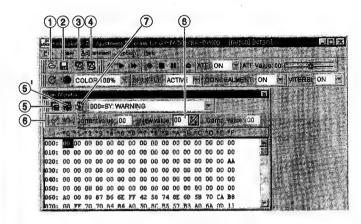


Fig. 3-4-14

1 File reading

Read the ROM data saved in the PC files. It is provided as standard with the adjustment software, for use as initial data. When the PC files are read, the file names are displayed in the ROM file display window.

2 File saving

The ROM data read by the ROM Tools can be saved in a PC file. This function is used for temporary backup of ROM data before adjustment. If the adjustment fails and the data becomes erroneous, use the backup to restore the original data.

(3) Data read from VCR

The ROM data in the VCR can be read. The R0M file display window shows "Current VCR data" in this case.

4 Data write in VCR

The ROM data read by the ROM Tools can be written in the VCR. When the initial data is written, it is required to readjust the DV circuit and re-set the IEEE1394 D (see 3.4.13).

(5) Data comparison

Note: When the ROM data is written in the VCR, be sure to turn the main unit and adjustments of twee OFF

The ROM data read by the ROM Tools is compared with data contained in a PC file or with the VCRdata, and any differences are displayed in red characters. "Comp. value" shows the data used in the comparison. It shows "00" when the comparison data does not exist. To cancel comparsion, clik (§)'.

6 Data editing

The ROM data read by the ROM Tools can be edited on a per-address basis. To edit data, click the [New value] of the required address data. To write the data in the VCR, click the "/" marking. To cancel editting, click the ") " marking.

7 Data output

The ROM data read by the ROM Tools can be output at a printer or as a text file.

3.4.13 IEEE1394 ID Setting

The BR-DV600 stores the ID in the format specified by the IEEE1394 standard in the EEPROM (IC103 on DV Main board). After replacing the EEPROM or the DV Main board, it is required to re-set the ID. The setting is possible with either of the methods outlined below.

1. Setting by manual input

(1) Under the [Option] tab of the adjustment software, click the [[EEE1394 ID Setting]. The window as shown below appears.

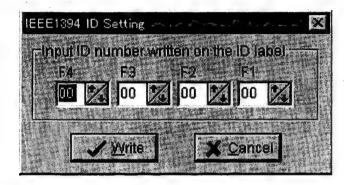


Fig. 3-4-15

- (2) The ID ("ID: 0401xxxx": NTSC, "ID: 0481xxxx": PAL) is indicated on the ID label number attached to the DV Main board. Input characters corresponding to "0401xxxx" for NTSC or "0481xxxx" for PAL.
- (3) Click "Write" to write the ID in the EEPROM.

2. Setting with ROM Tools

- (1) Read the data saved in the EEPROM to be replaced. (See 3.4.12.3.)
- (2) Save the read data in a PC file. (See 3.4.12.2.)
- (3) After the EEPROM replacement, connect the adjustment software to the BR-DV600.
- (4) Load the data saved in the PC file. (See 3.4.12.1).)
- (5) Write the loaded data in the EEPROM. (See 3.4.12.4).)
- (6) Now that the adjustment data in the new EEPROM has been overwritten by the data in the previous EEPROM. Re-adjust the DV circuit as required.

3.4.14 Active Head Cleaner Adjustment Mode

When adjusting the installation position of the active head cleaner, use this mode to force the active head cleaner ON for a certain period. (See subsection 2.7 No. 20 for the adjustment procedure.)

Under the [Adjustment] tab, click [Active Head Cleaner Adjusting...]. The window as shown below appears.

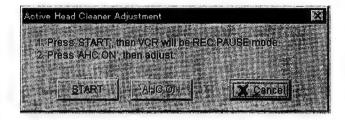


Fig. 3-4-16

- (2) Click [START] to set to "REC PAUSE" mode.
- (3) Click [ACH ON]. The active head cleaner will turn on in about 3 seconds.
- (4) Adjust the installation position as described in the adjustment procedure.

3.4.15 The limitations when the adjustment softwave is run

No.	Item	Description
1	Startup steps.	Main unit will be malfunctioned when start the adjustment software as soon as after OPERATE on.
2	It cannot be able to op- erate by operation but- ton of front panel.	Because of it cannot be able to comunicate between the SYSCON CPU and the DVC unit.
3	It is not stop automati- cally when use the cleaning cassette.	Because of the SYSCON CPU cannot be detected the claening cassette.
4	The TC counter is not count in recording mode.	Set the counter switch to CTL mode be- cause the TC counter is not count. It can be count when playback a tape which recorded TC.
5	The CTL counter is not count when open the ERROR RATE MONITOR.	Because of the CPU of main unit is worked for error rate operation and not output track signal. When close it, the CTL counter will be started to count again.
6	No color signal is out- put at MONITOR OUT when record the inter- nal color bars signal.	Playing circuit is not operated in this mode because of the same IC is used in the recording and playing circuit. But it can be recorded the signal correctly.

SECTION 4 CHARTS AND DIAGRAMS

SCHEMATIC DIAGRAM NOTES

· Schematic safety precaution

♠ Parts are safety related parts.

When replacing them, be sure to use the specified parts.

· Voltage and waveform measurements

Voltage:

Measured with digital voltmeter in DC range;

in REC mode.

Value in () is indicated only in the case PB

voltage is different from that in REC mode.

Waveform: Measured by supplying the color bar signal (100/ 0/100/0) and 1kHz, -8dB sine wave in REC or

PB mode.

Switch setting: Menu 108 VIDEO INPUT SELECT: LINE

Menu 125 SETUP: OFF (U MODEL)

Others: Initial setting.

· Unit of value

Unless otherwise specified

- Resistance is in Ω (1/6 W)
- 2) Capacitance is in µF
- 3) Inductance is in µH

· Expression of wiring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

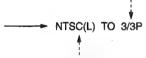
1) Circuit diagram divided into two or more sections:

Board	Board Name	Number of divided sections
10	DV MAIN	1/7-7/7
13	AUDIO S/S	1/3-3/3
1 5	VIDEO I/O	1/4 4/4
Minings.	OVERALL	1/2 -2/2

 Indication of wiring which extends to another section: (Example)

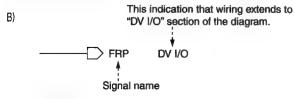
A)

This indication that wiring extends to 3/3 of the diagram.



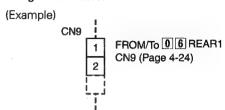
Signal name

In the above case, the end of the wiring is connected to the "NTSC(L)" on the 3nd section of the diagram.



In the above case, the end of the wiring is connected to the "FRP" on the "DV $I\!/\!O$ " section of the diagram.

· Wiring of connector



In the above example, CN9 is connected with CN9 on **16** REAR1 board.

· Signal flow on the diagram

The following allow marks indicate the specified signal paths respectively.

: Recording or EE signal path

: Playback signal ptah

: Recording and Playback signal path

Others

In regard of a board assembly whose circuit is composed of multilayered board patterns such 4- or 6-layered patterns, board patterns of the power supply lines and grounding lines are omitted in this section.

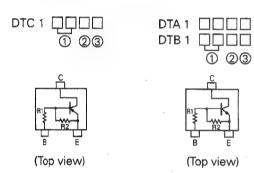
Note: For detail of each electrical part, refer to Section 6 "ELECTRICAL PARTS LIST" by it symbol number.

■ REPLACING SURFACE MOUNT "CHIP" COMPONENTS

- Some resistors, shorting jumpers (0 resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Chip resistors used in some circuits are of high precision type having little error in resistance.
 - To demonstrate the full capacity of this set, place an order for proper parts referring to the diagrams and parts lists in the section 5.
- Soldering cautions:
 - 1) Do not apply heat for more than 3 seconds.
 - 2) Avoid using a rubbing stroke when soldering.
 - 3) Discard removed chips; do not reuse them.
 - 4) Supplementary cementing is not required.
 - 5) Use care not to scratch or otherwise damage the chips.

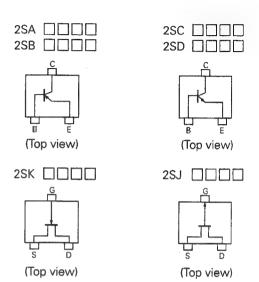
■ CHIP PARTS PIN ARRANGEMENT

[1] Digital transistors

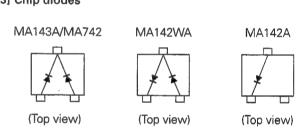


- 1 Two digits show resistance of R1 in abbreviation.
 - 43 : 4.7 kΩ 14 : 10 kΩ
 - $24 : 22 k\Omega$
 - $44 : 47 k\Omega$
- ② Roman letter show the resistive ratio between R1 and R2 in abbreviation.
 - E : R2/R1 = 1/1
 - Y : R2/R1 = 5/1
 - W : R2/R1 = 2/1
 - X : R2/R1 = 1/2
 - T: R2 is opened.
- ③ Symbol the shape of resistor in abbreviation.

[2] Chip transistors and chip F.E.T.s

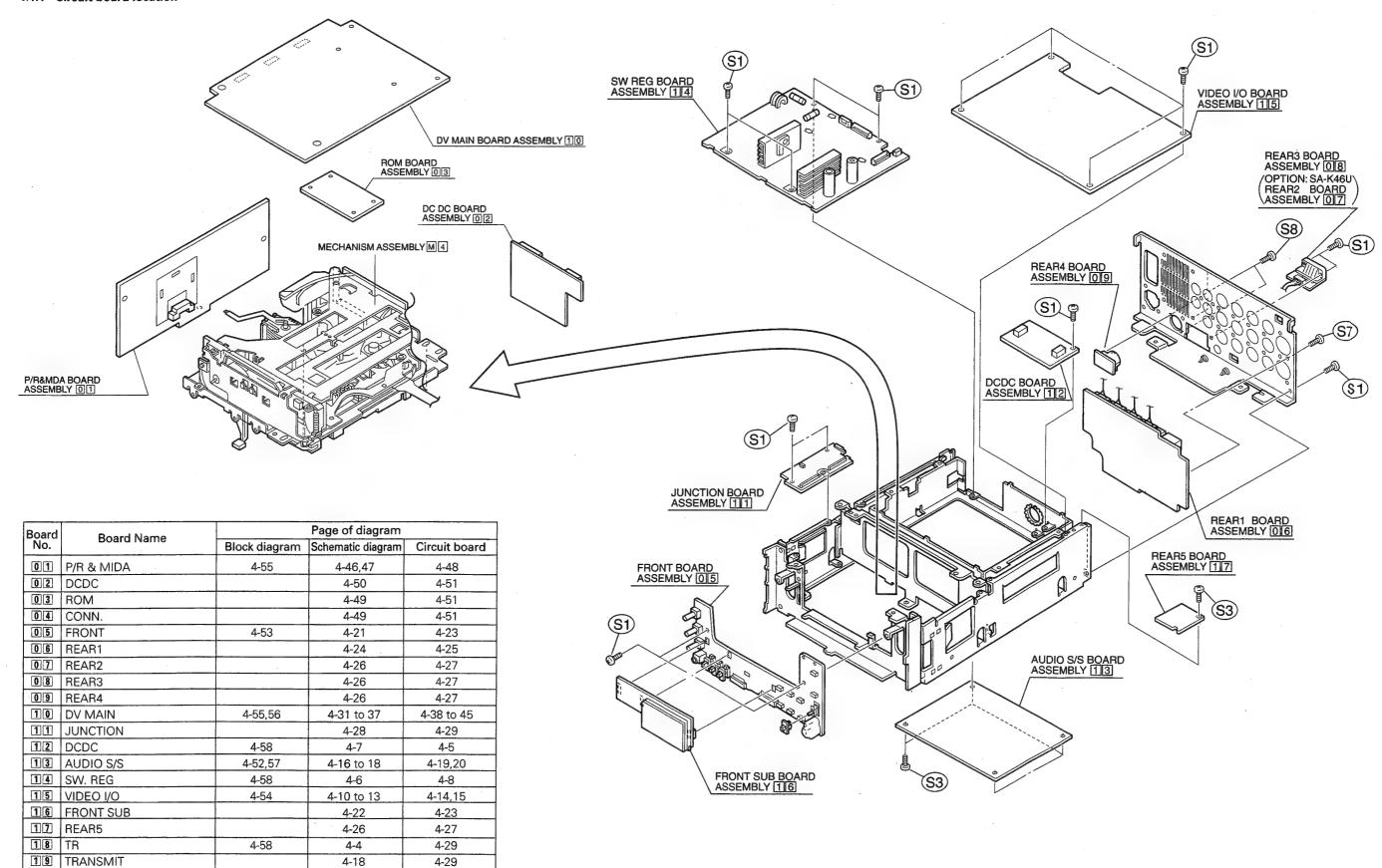


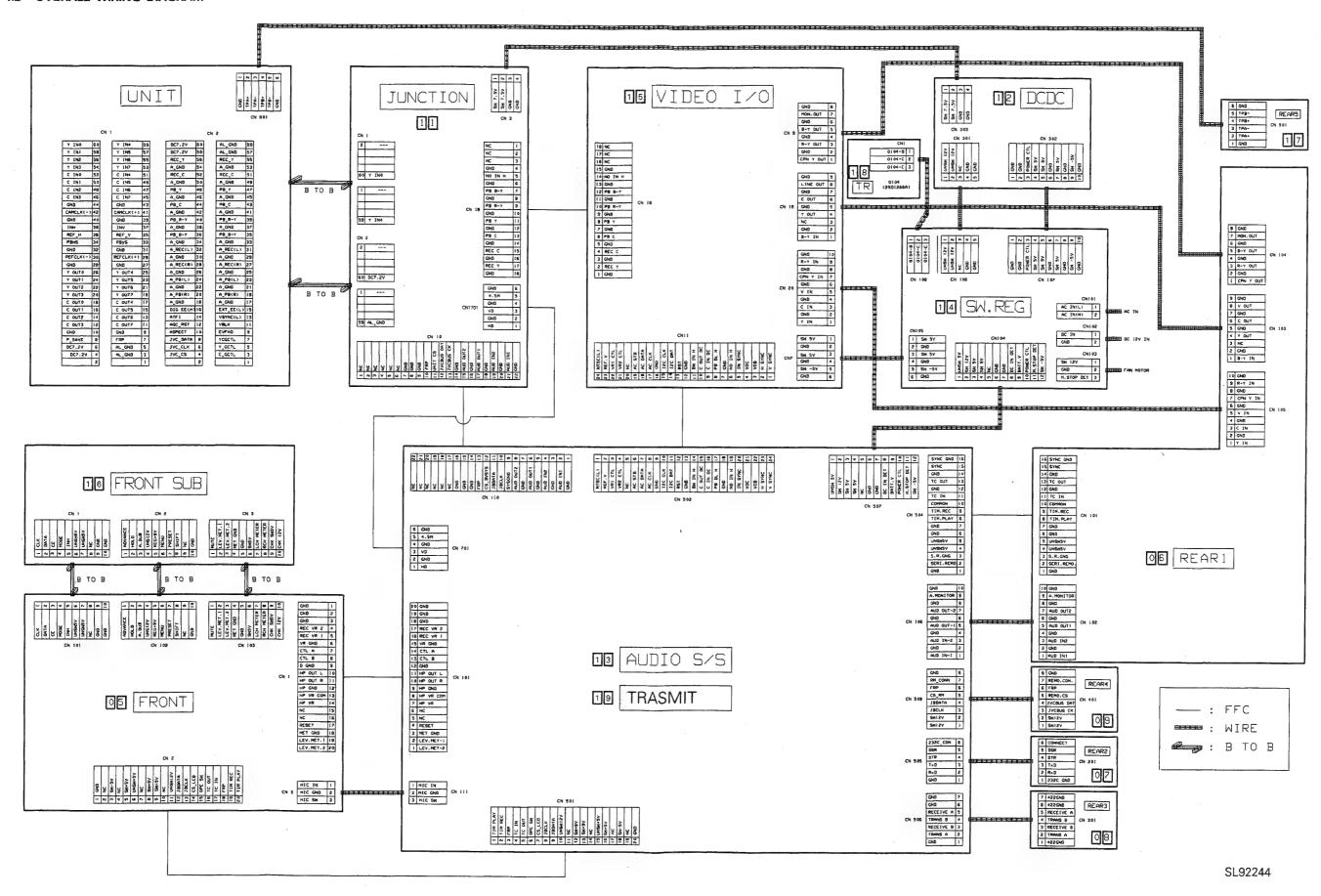
[3] Chip diodes



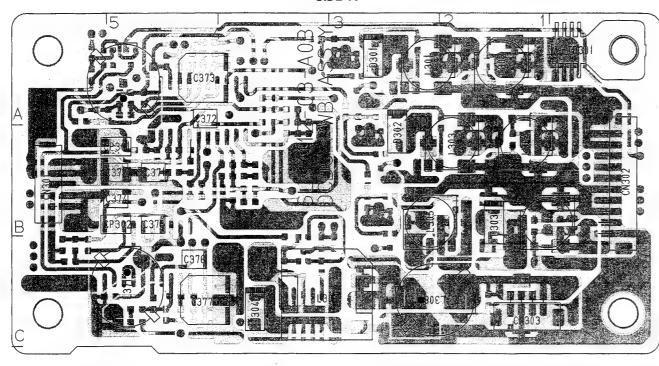
4.1 INDEX TO PAGES OF MAIN BOARDS AND CIRCUIT BOARD LOCATION

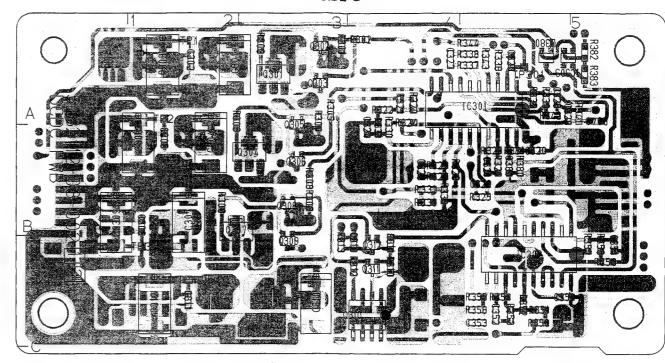
4.1.1 Circuit board location





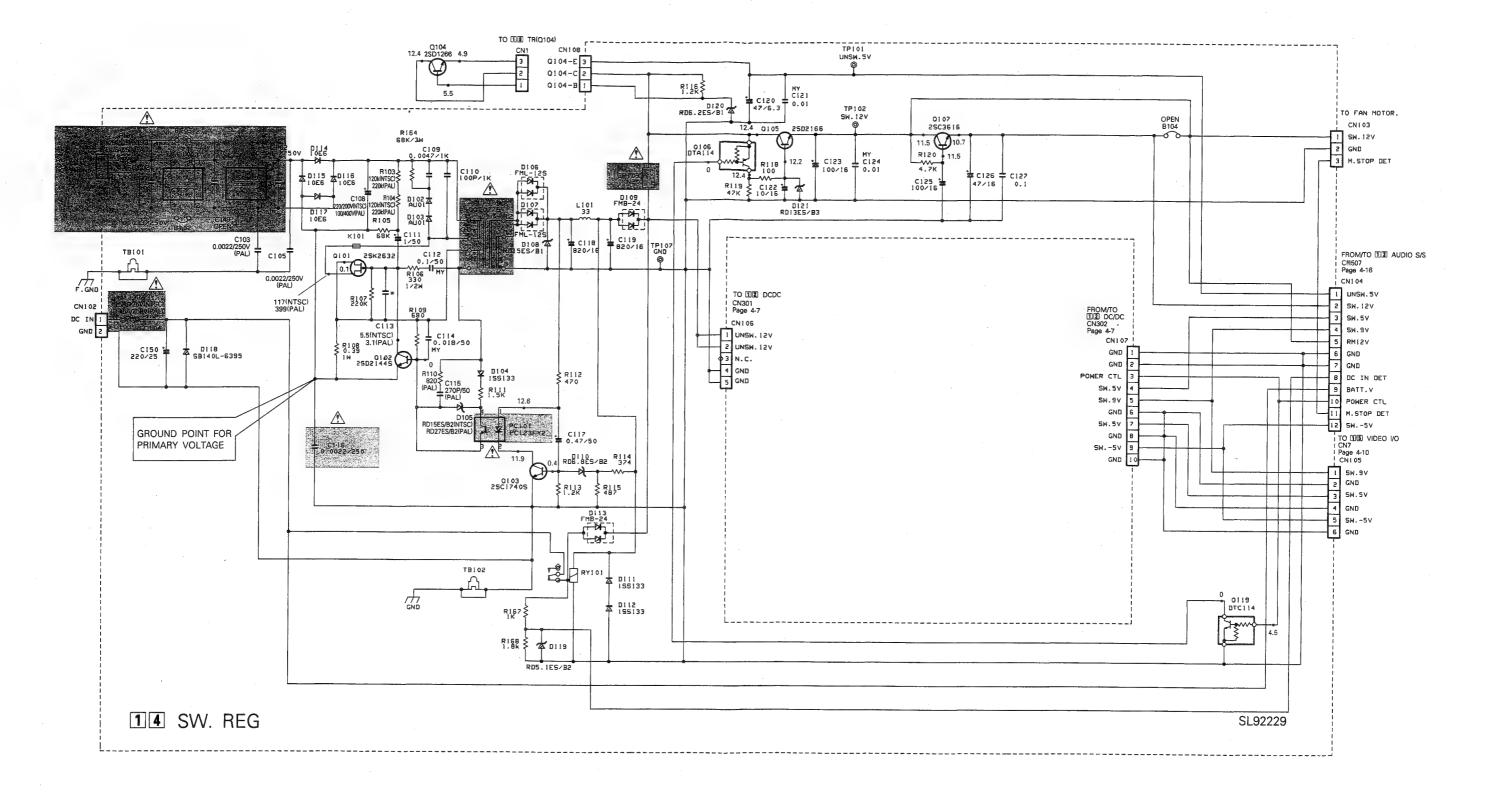
4-4 4-

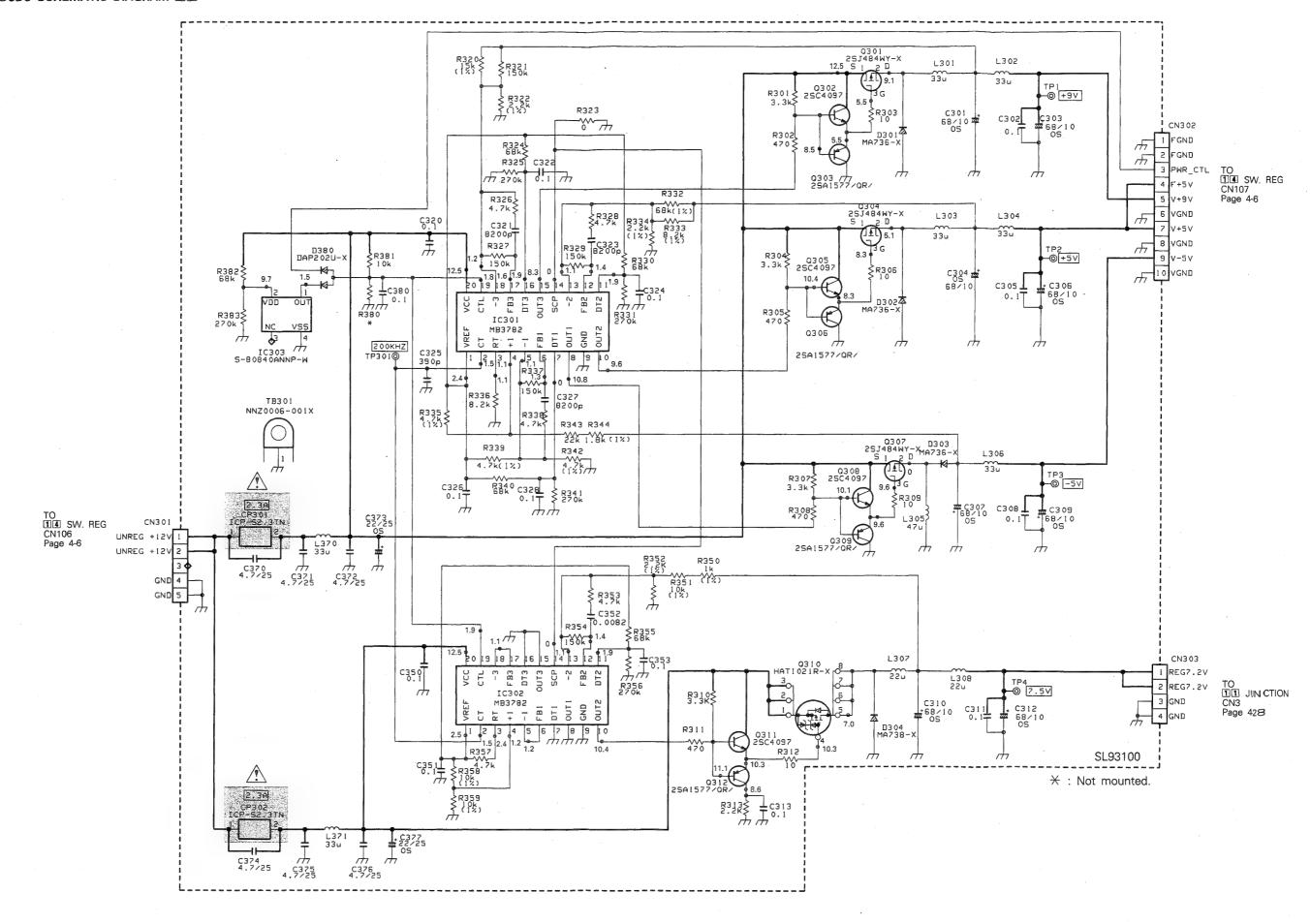


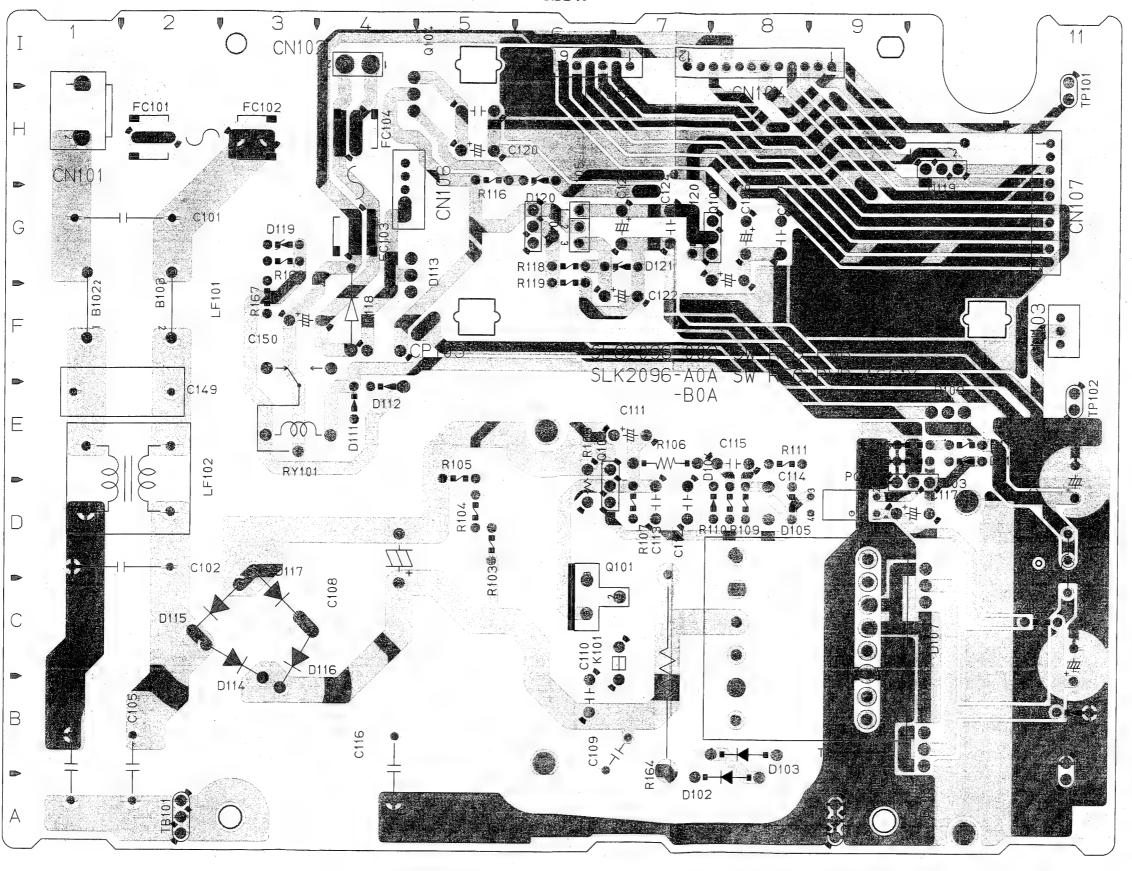


● ADDRESS TABLE OF BOARD PARTS
Each address may have an address error by one interval.

IC301	B-4A	R305	B-3A	R338	B-4A	C306	B-2B	C376	A-4C	CN302	A-1B	
IC302	B-4C	R306	B-2A	R339	B-5A	C307	B-2B	C377	A-4C	CN303	A-2C	
IC303	B-5A	R307	B-3B	R340	B-5A	C308	B-2B	C380	B-4B			l
		R308	B-3B	R341	B-5A	C309	B-1B					l
Q301	В-ЗА	R309	B-2B	R342	B-5A	C310	B-3C	L301	A-2A			l
Q302	В-ЗА	R310	B-3C	R343	B-4A	C311	B-2C	L302	A-2A			
Q303	B-3A	R311	B-3C	R344	B-4A	C312	B-2C	L303	A-2B			l
Q304	B-2B	R312	B-3C	R350	B-5C	C313	B-3C	L304	A-2B		_	l
Q305	B-3A	R313	B-3C	R351	B-5C	C320	B-5B	L305	A-2B			l
Q306	B-3B	R320	B-4A	R352	B-4C	C321	B-4B	L306	A-1B			
Q307	B-2B	R321	B-4A	R353	B-4C	C322	B-4B	L307	A-3C	1		ı
Q308	B-3B	R322	B-3A	R354	B-4C	C323	B-4B	L308	A-2C	-		
Q309	B-3C	R323	B-4B	R355	B-4C	C324	B-3B	L370	A-5A			
Q310	B-3C	R324	B-4A	R356	B-4C	C325	B-4A	L371	A-5C			ı
Q311	B-3C	R325	B-4B	R357	B-5C	C326	B-5A					
Q312	B-3C	R326	B-4B	R358	B-5C	C327	B-4A	TP1	B-2A			
		R327	B-4B	R359	B-5C	C328	B-5A	TP2	B-2A			
D301	А-ЗА	R328	B-4B	R380	B-4B	C350	B-5C	TP3	B-2C		-	
D302	A-3B	R329	B-4B	R381	B-4B	C351	B-5C	TP4	B-2C			
D303	A-2B	R330	B-3B	R382	B-5A	C352	B-4C	TP301	B-4A			
D304	A-4C	R331	B-3B	R383	B-5A	C353	B-4C					
D380	B-5A	R332	B-4B			C370	A-5B	TB301	A-1A			
		R333	B-4B	C301	B-2A	C371	A-4B				İ	
R301	B-3A	R334	B-4B	C302	B-2A	C372	A-4A	CP301	A-5B			
R302	B-3A	R335	B-4A	C303	B-2A	C373	A-4A	CP302	A-5B			
R303	B-2A	R336	B-4A	C304	B-2B	C374	A-5B					
R304	B-3A	R337	B-4A	C305	B-2B	C375	A-4B	CN301	A-5B			



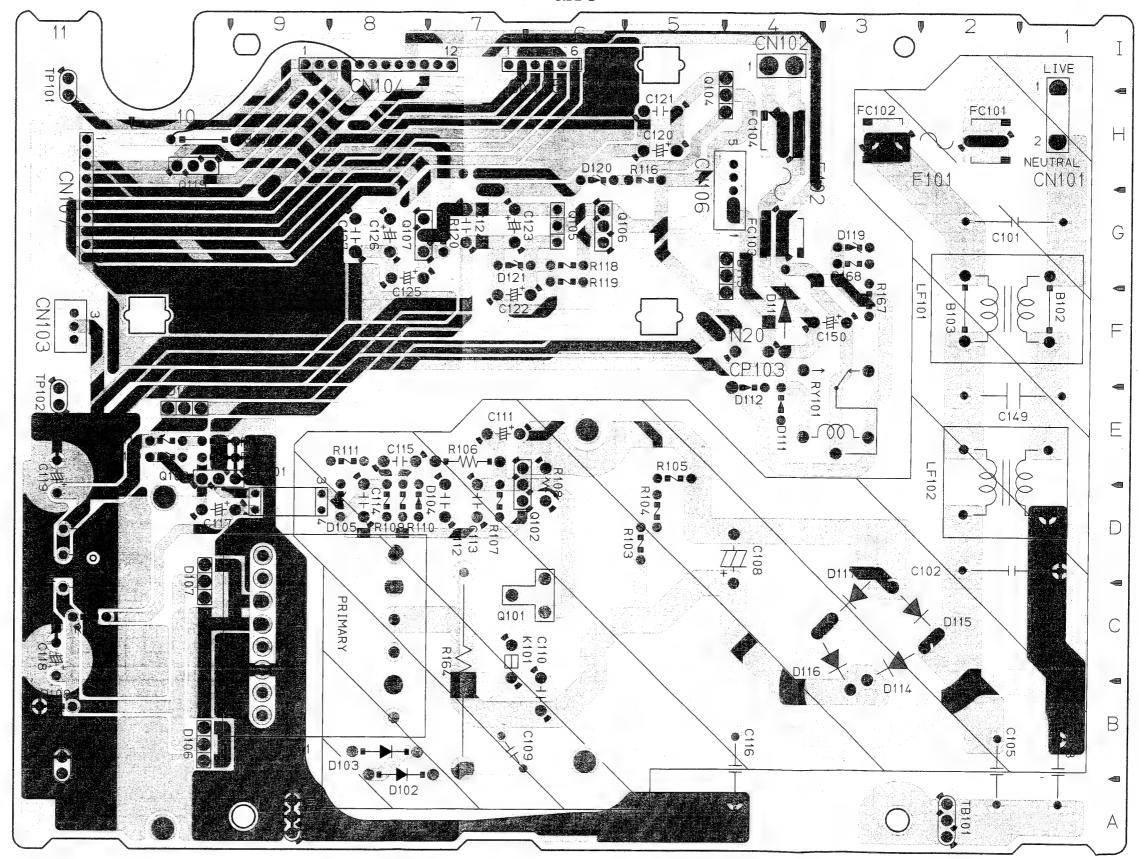


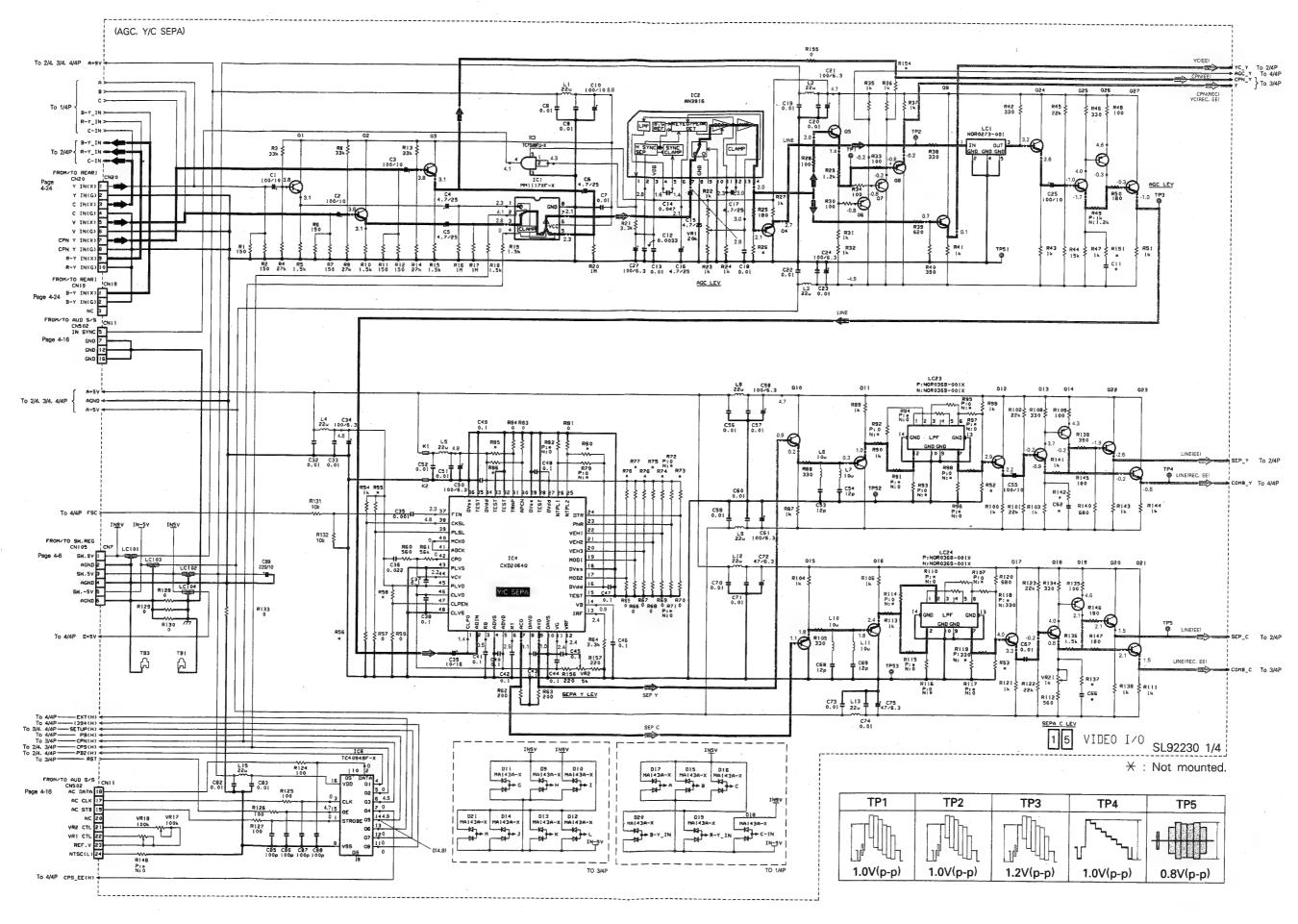


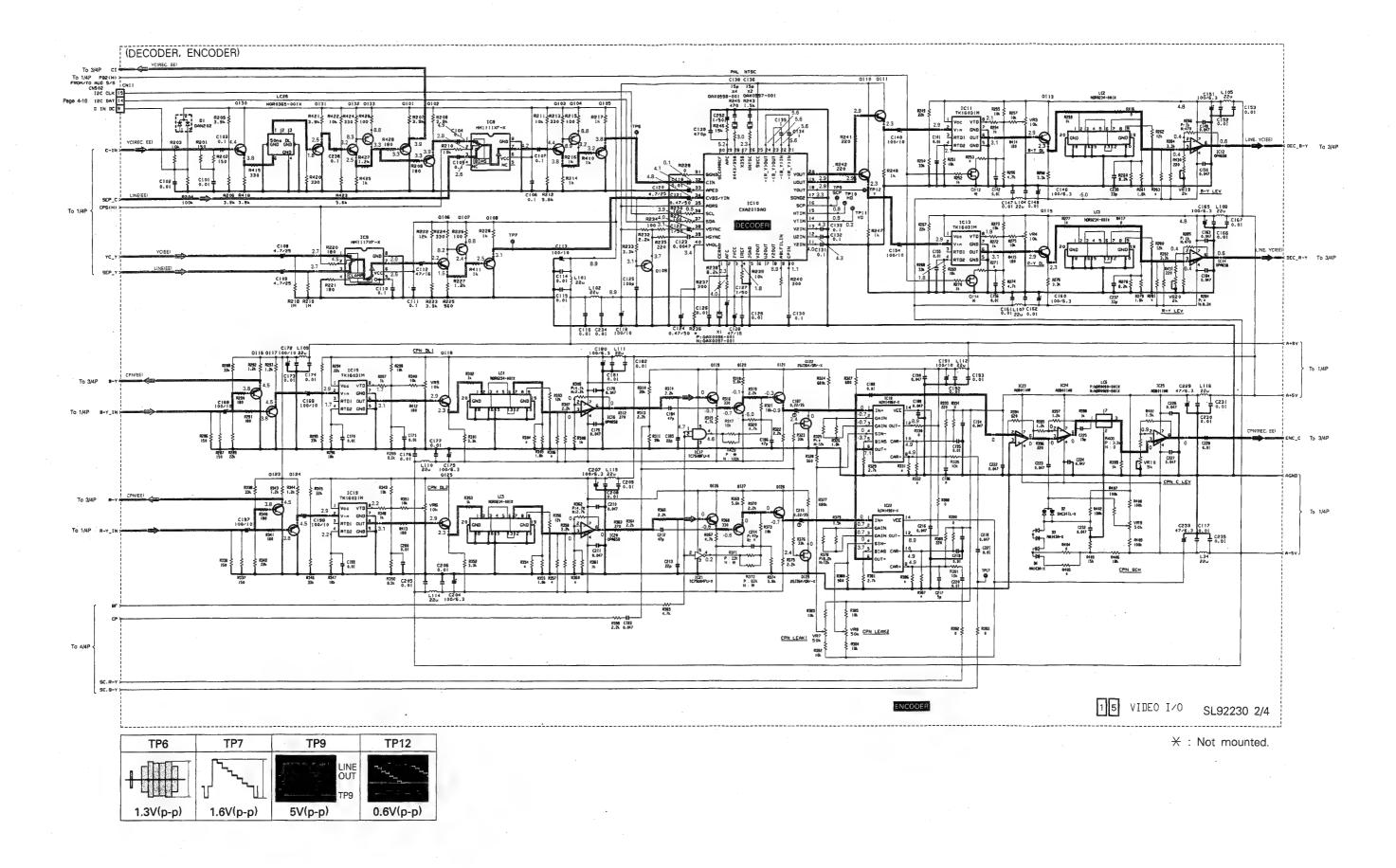
ADDRESS TABLE OF BOARD PARTS
 Each address may have an address error by one interval.

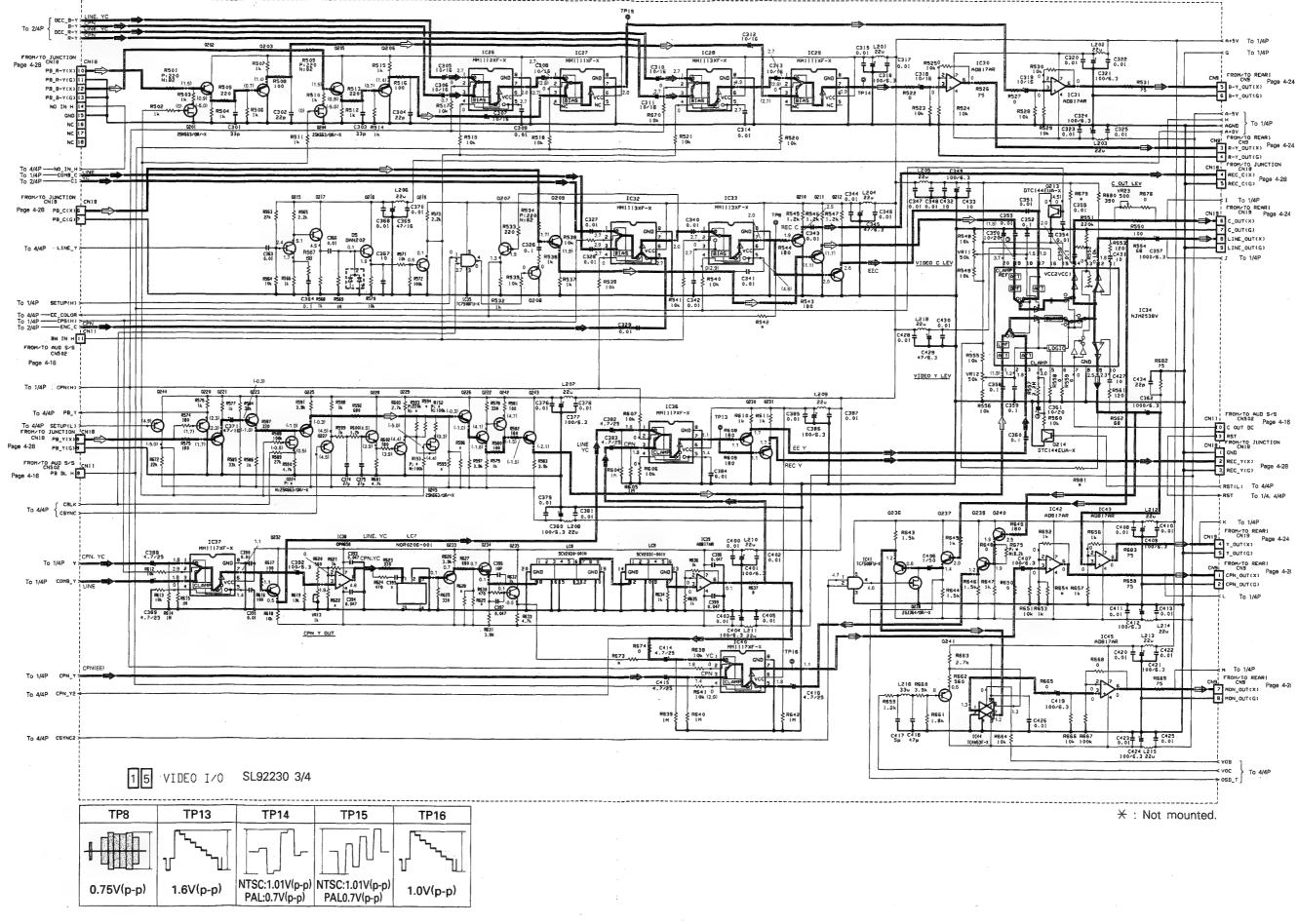
Side A-1C
Y axis
X axis

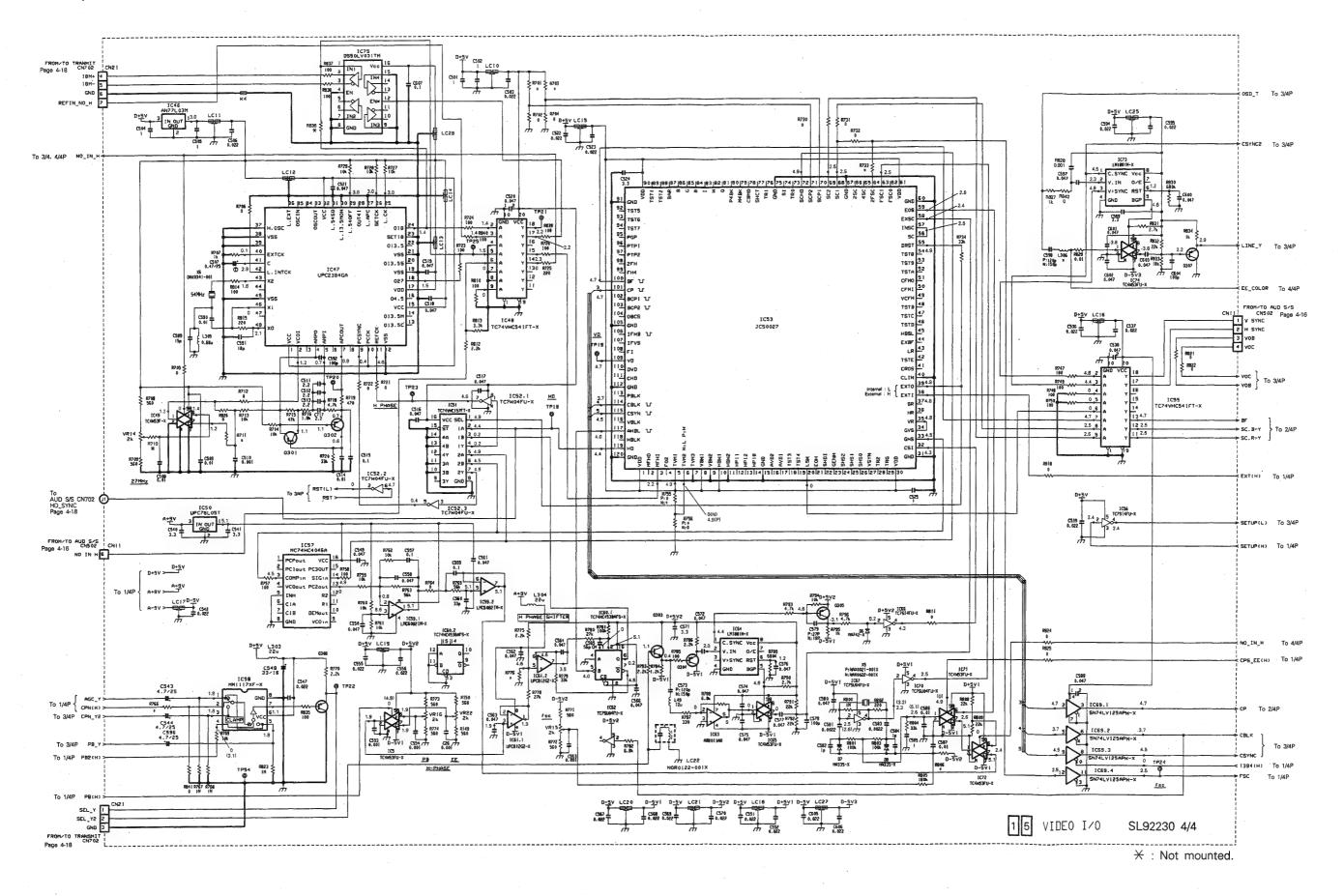
		Ха	Xis
Q101 Q102 Q103 Q104 Q105 Q106 Q107 Q119	6C 6E 9D 5I 6G 6G 7G 10H	C117 9D C118 111 C119 111 C120 5H C121 5H C122 6F C123 7G C124 7G	B
D102 D103 D104 D105 D106	7A 7B 7D 8D 10B	C125 7G C126 8G C127 8G C149 2E C150 3F	
D107 D108	10C 11B	L101 110	2
D109 D110 D111 D111	10E 10E 4E 4E	TP101 111 TP102 118 TP107 114	Ξ
D113	5G	K101 7B	
D115 D116 D117	3B 2C 3B 3C	TB101 3A TB102 9A	
D118 D119 D120 D121	4G 3G 6H 6G	FC101 2H FC102 2H FC103 4H FC104 4H	
R103 R104 R105 R106 R107 R108 R110 R111 R112 R113 R114 R115 R116 R118 R119 R120 R164 R167 R168	5D 5D 5E 7E 7D 6E 8D 8B 11C 9E 10E 9F 5H 6G 6G 7A 3G	CP103 4F CN101 11 CN102 4I CN103 11F CN104 9I CN105 7I CN106 4G CN107 11H PC101 9D LF101 1G LF102 1D RY101 3E B102 1F B103 2G B104 9H	
C108 C109 C110 C111 C112 C113 C114 C115	1G 1D 1B 2B 4C 7B 6B 7E 7D 7D 8D 8E 4B	T101 8D	

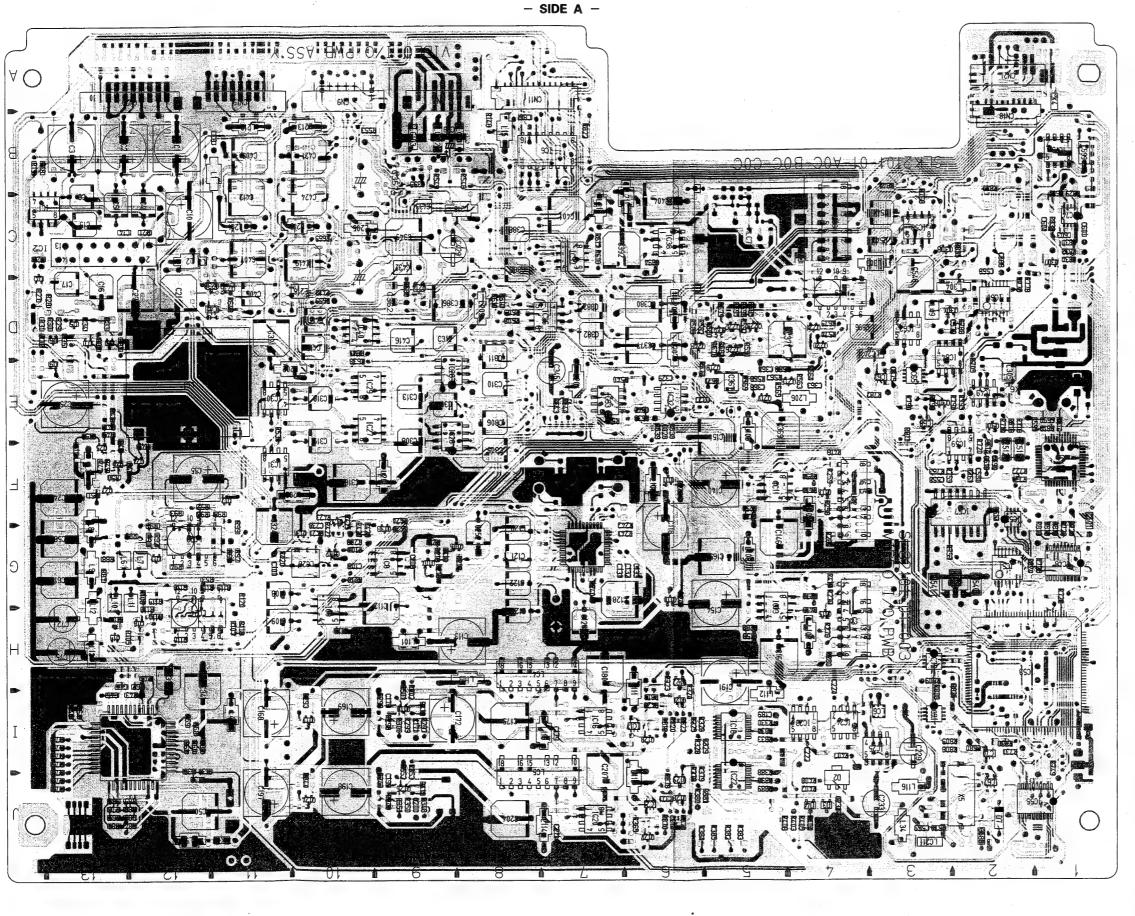






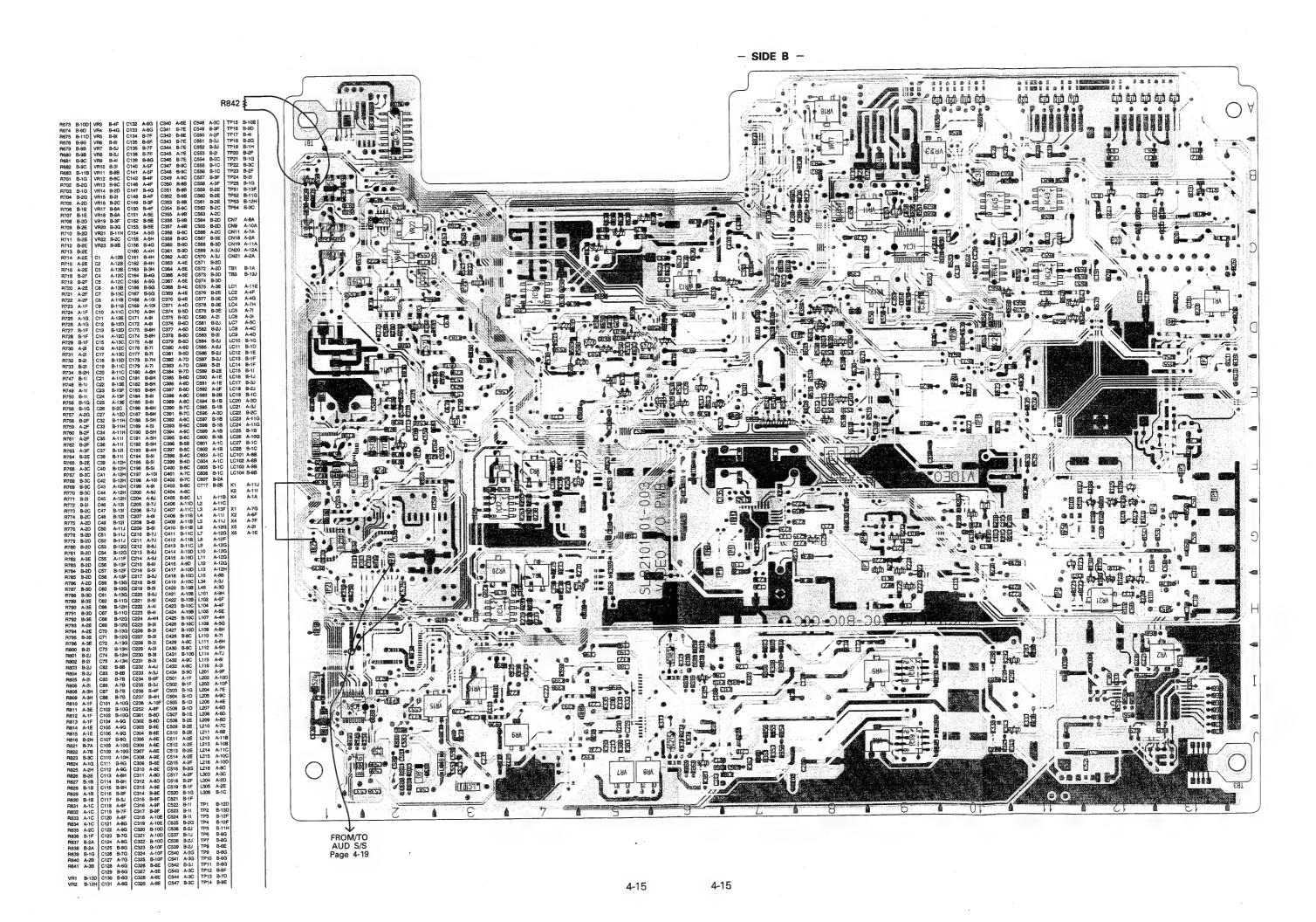


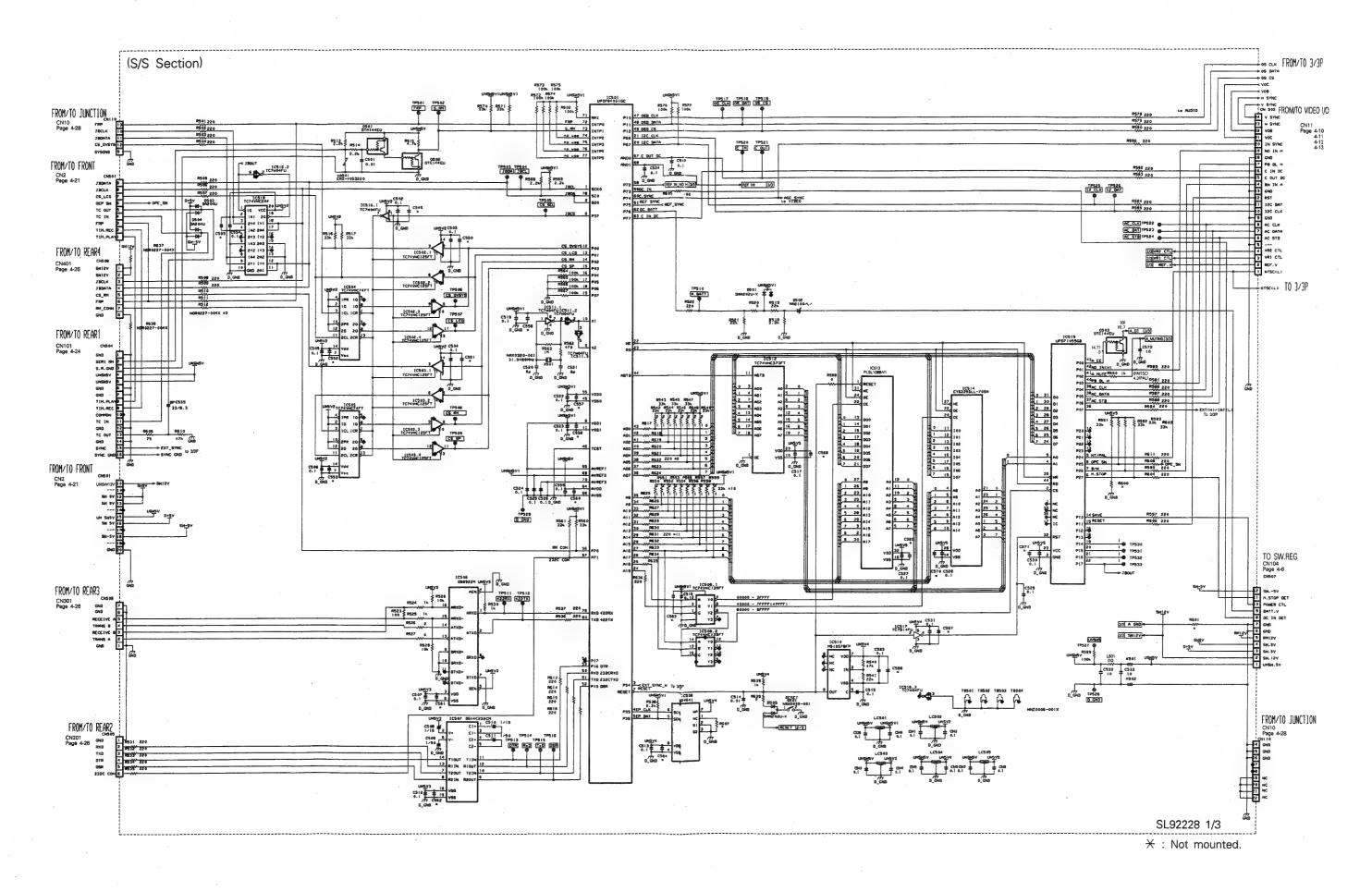


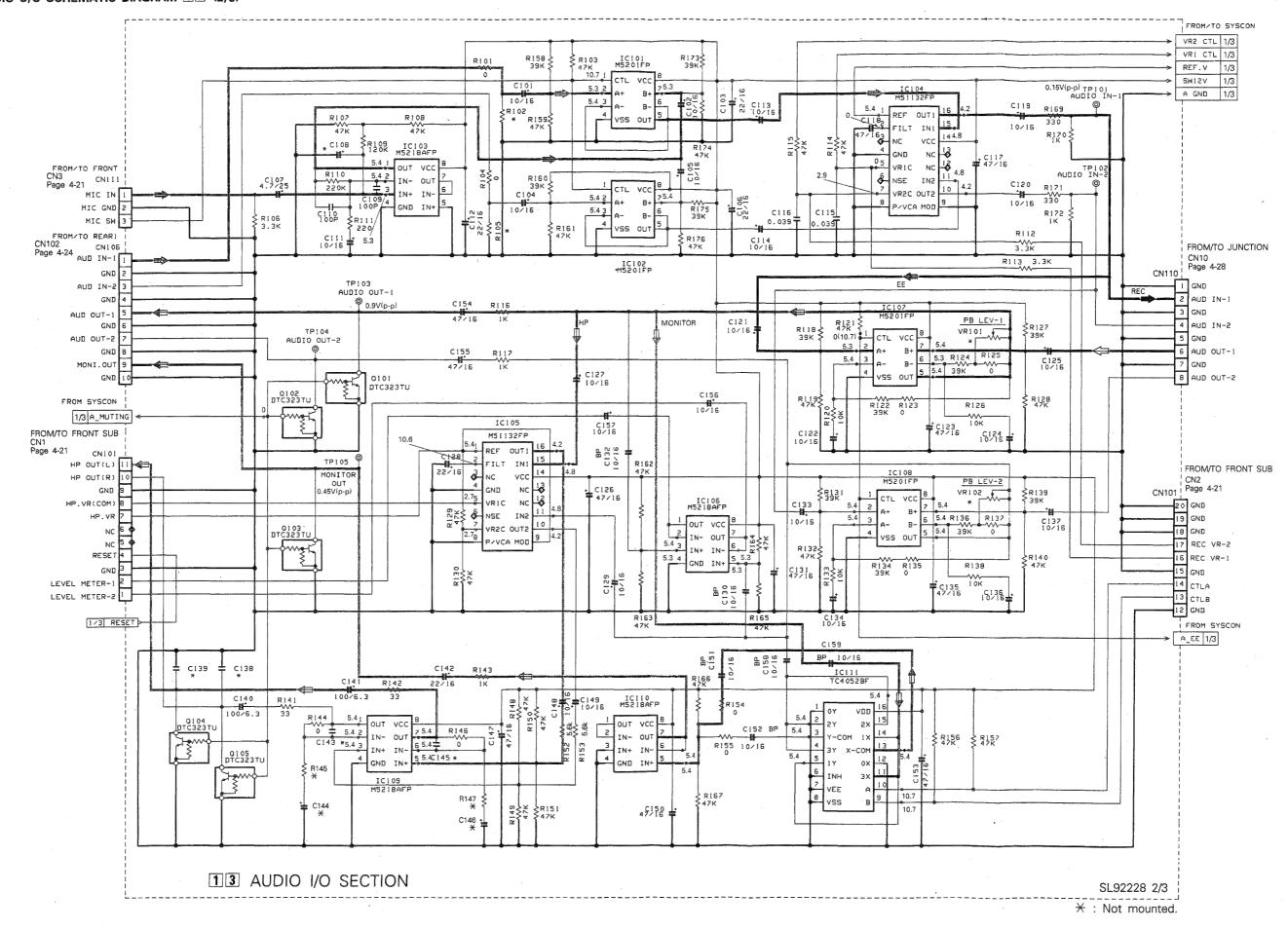


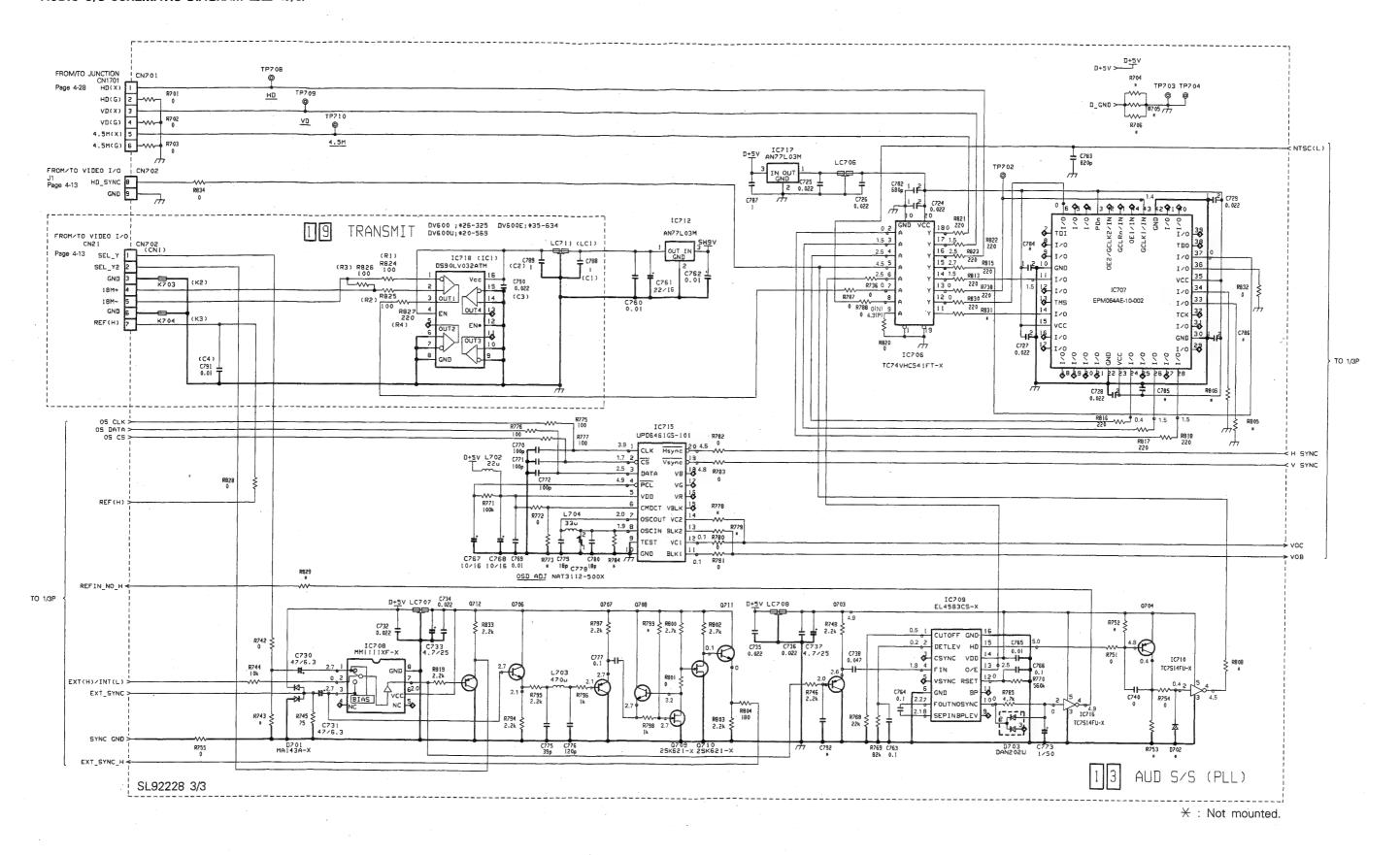
 ADDRESS TABLE OF BOARD PARTS Each address may have an address error by one interval.

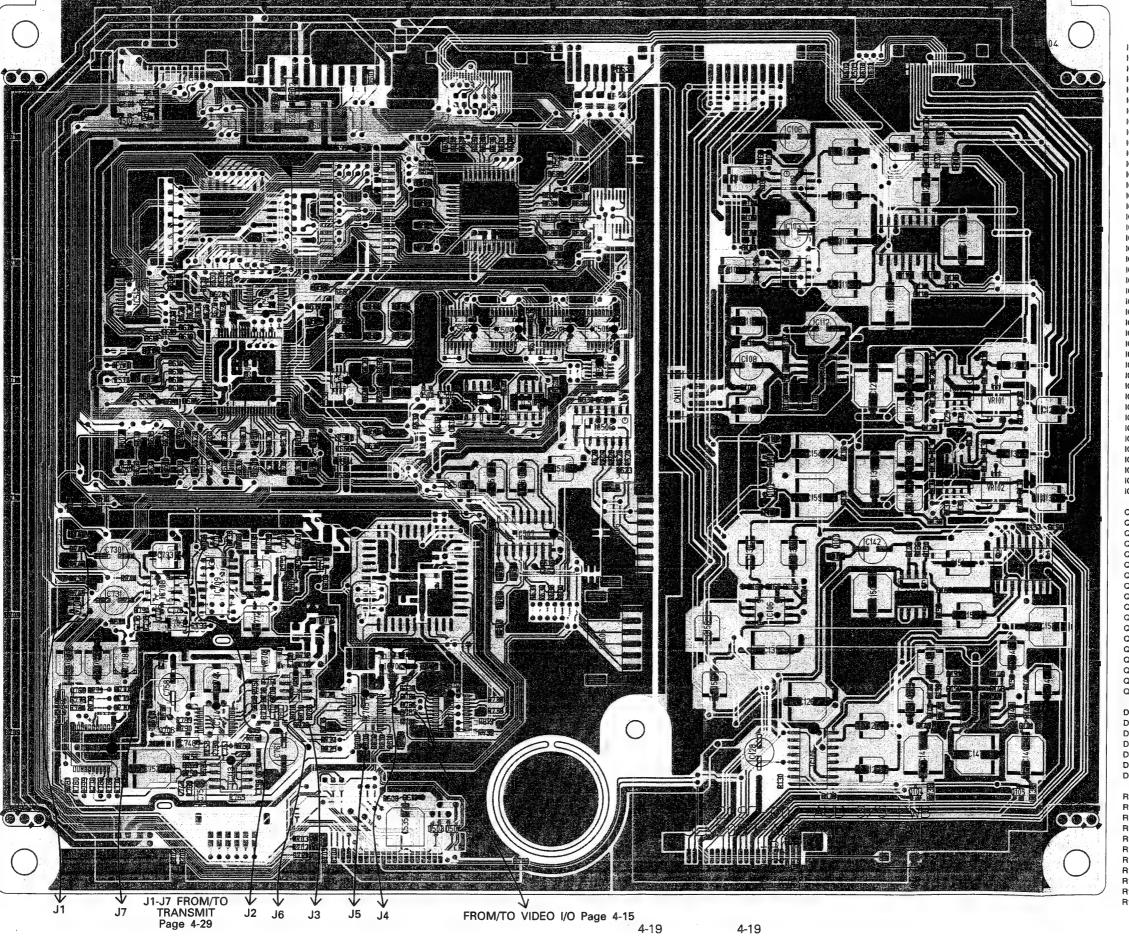
			_	—х	axis	6					
	A-13C	Q128 Q129	A-6J A-6I	R47 R48	A-12F A-12F	R217 R218	A-8G B-10G	R348 R349	A-9J A-9J	R544 R545	A-7E B-7E
	B-12C	Q130 Q131	B-10G A-10F	R49 R50	A-12F A-12F	R219 R220	B-10G B-10G	R350 R351	A-9J A-9J	R546 R547	B-7E B-7E
	B-2B	Q132	A-10F	R51	A-12F	R221	B-10H	R352	A-9I	R548	A-8B
	A-7B A-9G	Q133 Q201	A-9F B-8D	R52 R53	A-11F A-11G	R222 R223	B-9G B-9G	R353 R354	A-9I B-71	R549 R550	A-8B B-9B
D	A-10G A-7G	Q202 Q203	B-8D B-8D	R54 R55	B-12i B-12i	R224 R225	B-9G B-9G	R355 R356	B-71 B-71	R551 R552	B-9B B-9B
1	A-4F R-3F	Q204	B-8E	R56	B-12I	R226	B-8G	R357	B-7J	R553 R554	A-9B B-9A
2	B-3F A-4G	Q205 Q206	B-8E B-8E	R57 R58	B-12I A-11I	R227 R228	B-8G B-8G	R358 R359	B-7J B-6H	R555	B-8D
4 5	B-3H B-91	Q207 Q208	B-6E B-6E	R59 R60	A-111 A-111	R229 R230	B-7F B-7G	R360 R361	B-7J B-7J	R556 R557	8-80 8-90
6	A-71 A-61	Q209 Q210	B-6E B-7€	R61 R62	A-111 A-12H	R231 R232	B-7G B-7G	R362 R363	B-7J B-6J	R558 R559	B-10D B-10D
8	A-51	Q211	B-7E	R63	B-12H	R233	B-8G	R364	B-6J	R560	A-9D
9	B-9J A-7J	Q212 Q213	B-7É B-9B	R64 R65	A-13i B-13i	R234 R235	B-7G B-7G	R365 R366	A-6J B-6J	R561 R562	B-100 B-9C
1	A-6J A-5I	Q214 Q215	A-9D A-4E	R66 R67	B-13I B-13I	R236	B-7G B-7G	R367 R368	B-6J B-6J	R563 R564	A-4E A-4E
3	A-41	Q217	A-5E B-5E	R68 R69	B-131	R238 R239	B-7G B-7G	R369 R370	B-6J	R565 R566	A-4E A-4E
5	A-4I A-3I	Q218 Q219	A-5D	R70	B-13I B-13I	R240	A-7G	R371	A-6J A-6J	R567	A-4E
6	A-8E A-9E	Q220 Q221	A-4D A-4D	R71 R72	B-13l A-13l	R241 R242	A-6F A-6F	R372	B-61	R568	A-5E A-5E
8	A-8E A-9E	Q222 Q223	A-5D B-4D	R73 R74	A-13I A-13I	R243 R245	B-7F B-7F	R374 R375	B-6I A-6J	R570 R571	B-5E A-5E
٥	A-10E A-10F	Q224 Q225	B-5D A-5D	R75	A-13I A-13I	R246 R247	B-8F A-6G	P376	A-6I B-5I	R572 R573	B-SE A-SE
2	A-6E	Q226	A-SD	R77	A-13I	R248	A-6F	R378	A-5I	R574	A-4D
3	A-6E B-9C	Q227 Q228	B-4D B-5D	R78	A-13I A-12J	R249 R250	B-5F B-5F	R379 R380	A-5I A-5I	R575 R576	A-4D B-4D
5	B-5E A-7D	Q229 Q230	B-5D B-8D	R80 R81	A-12J A-12J	R251 R252	A-5F 8-4F	R381 R382	A-5/ A-5J	R577	B-4D A-5D
7	A-7C	Q231	B-8D	R82	A-12J	R253 R254	B-4F	R383	A-5J A-5J	R579 R580	A-5D A-5D
8	A-6C B-4C	Q232 Q233	B-6C B-58	R83	A-12J A-12J	R255	A-4F B-4F	H385	A-5J	R581	A-5D
0	A-9D A-11D	Q234 Q235	B-5C B-5C	R85 R86	A-12J A-12J	R256 R257	B-4F B-4F	R386 R387	B-5J B-5J	R582 R583	A-5D A-5D
2	B-11C B-118	Q236 Q237	A-11D B-11D	R87	A-12G A-12G	R258 R259	A-4F	R388 R389	A-5I A-5I	R584 R585	B-4D B-4D
4	B-10C	Q238	A-11C	R89	A-12F	R260	B-4F	R390	A-5I	R586	B-4D
5 6	B-10B B-1D	Q239 Q240	B-11D B-11D	R90 R91	A-12F A-12F	R261 R262	B-4F A-4G	R391 R392	B-5J B-4J	R587 R588	B-5D B-5D
7	A-1F A-1G	Q241 Q242	8-10C A-5D	R92 R93	A-12F A-12F	R263 R264	B-4F B-4F	R393 R394	B-41 B-41	R589 R590	B-5D B-5D
9	A-2E A-2G	Q243 Q244	A-5D B-6D	R94 R95	A-12G A-11G	R266 R267	B-3F B-5G	R395 R396	B-41 B-41	R591 R592	A-5D A-5D
1	A-2G	Q245	B-5D	R96	A-11F	R268	B-5G	R397	B-41	R593	B-5D
3	A-2F A-2H	Q301 Q302	A-2E B-2E	R97 R98	A-11G A-11F	R269 R270	A-5H B-4G	R398 R399	B-41 B-3H	R594 R595	8-5D A-5D
5	A-1J B-2J	Q303 Q304	B-2D A-2D	R99 R100	A-11F B-11F	R271	B-4G A-4G	R400 R401	B-3I B-3I	R596 R597	A-5D A-5D
7	A-2F	Q305	A-2E	R101	B-11F B-11F	R273	B-4G B-4G	R402 R403	A-41 A-4J	R598 R599	8-4D 8-4D
8	A-3C A-2E	Q306 Q307	B-1B A-1C	R102 R103	B-11G	R275	B-4G	R404	A-4J	R600	B-5D
0	A-2D B-2C	Q308	A-2C	R104 R105	A-12G A-12H	R276 R277	A-4H A-4G	R405 R406	A-4J A-4J	R601 R602	8-5D 8-5D
2	A-3E A-3D	D1 D2	B-10F A-4I	R106 R107	A-12G A-11H	R278 R279	B-4H B-4H	R407 R408	A-41 A-41	R603 R604	B-5D B-7D
4	A-2D	D3	A-4J	R108	B-11F	R280	A-4H	R409	B-3J	R605	B-7D
6	A-3E A-3E	D4 D5	A-4J B-5E	R109 R110	B-12F A-11H	R281 R282	B-4H B-4H	R410 R411	A-8G B-8G	R606 R607	B-7D B-7D
7	A-21 B-11	D6 D7	B-3E A-2J	R111 R112	B-12H B-12H	R284 R285	B-3G B-3G	R412 R413	A-9H A-9I	R608 R609	A-8D A-8D
0	A-2I	D8 D9	B-2J B-9A	R113	A-12G A-12G	R286 R287	B-10H B-10H	R414 R415	A-4F A-4G	R610 R611	A-8D A-8D
2	A-3I A-3H	D10	B-11A	R115	A-12G	R288	B-10H	R416	A-4E	R612	B-7C
3	A-1B A-1C	D11 D12	B-10A B-9A	R116 R117	A-11G A-11G	R289 R290	B-10I B-10I	R417 R418	A-4G B-10G	R613 R614	B-7C B-7C
5	B-2A	D13	B-11A B-11A	R118 R119	A-11H A-11G	R291 R292	B-10I B-10H	R419 R420	B-10G A-10G	R615	B-7C A-7C
	B-12B	D15	B-12A	R120	A-11G	R293 R294	A-10H B-9I	R421 R422	A-10F A-10F	R617	A-7C B-6C
	B-12B B-13B	D16 D17	B-12A B-12A	R121	B-11G B-11G	R295	B-9H	R423	A-10F	R619	B-6C
	A-13C A-13D	D18 D19	B-12A B-12A	R123 R124	B-11G B-7B	R296 R297	A-9H A-9I	R424 R425	A-9F A-9F	R620 R621	B-6C B-6C
	A-13D A-13D	D20 D21	B-10A B-10A	R125	B-7B B-7B	R298 R299	A-9I A-9I	R426 R427	A-9F A-9F	R622 R623	B-6C B-6C
	A-12D A-13D	R1	B-12B	R127 R128	B-7B B-8B	R300 R301	A-9I A-9H	R428 R429	A-9F A-6H	R624 R625	B-5C B-5B
0	B-12G	R2	B-12B	R129	B-8B	R302	A-9H	R430	B-3F	R626	B-5B
t 2	A-12G A-11F	R3 R4	B-11B B-12B	R130 R131	B-8B A-11I	R303 R304		R431 R501	B-3G B-7D	R627 R628	
3	B-11F B-12F	H5	B-12B B-12B	R132 R133	A-11I	R305	B-7H	R502 R503	B-7D B-7D	R629 R630	B-5C B-5C
5	A-12H	R7	B-12B	R134	B-11G	R306 R307 R308 R309	B-7H	R504 R505	8-8D 8-8D	R631 R632	B-5C B-5B
7	A-12G B-11G	R9	B-12B B-12B		B-11G B-11G	R309	B-71 B-71	R506	B-8D	R633	B-4C
B 9	B-11G B-11G	R11	B-12B B-13B	R137 R138	B-12H B-12H B-12F	R310 R311	B-6H	R507 R508	B-8D B-8D	R634 R635	B-3C B-4D
0	B-12G B-12G	R12	B-13B B-13B	R139	B-12F B-12G		B-6I B-6I	R509 R510	B-7E B-7E	R636 R637	B-4D B-5C
2	B-12F	R14	B-13B	R141	B-11F B-11G		D 61	R511 R512	8-7E B-8E	R638	A-9D
4	B-12F A-12F	R16	B-13B B-12C		B-12G	R316	B-61	H513	B-8E		B-10D B-10D
5 6	A-12E A-12F	R1B	B-12C A-13B	R145	B-12F	R317 R318	A-6H B-6!	R514 R515	8-8E	R641 R642	A-9D B-9D
7	A-12F B-10F	R19	A-13B B-12C	R146	B-12G B-12G	R319	A-6I A-6I	R516 R517	8-8E B-8E	R643 R644	A-11D B-11C
02	A-10G	R21	A-12C	R148	A-8B	R321	B-6H	R518	B-9€	R645	B-10C
03 04	B-9G A-9G	R22 R23	B-13D B-13D			R322 R323	A-61 A-6H	R519 R520	B-8E B-9E	R646 R647	B-11D B-11D
05 06	A-8G B-9G	R24 R25 R26 R27	B-12D A-13C		A-13E	R324 R325	A-5H A-5I	R521 R522	B-8D B-10E	R648 R649	B-11D B-11D
07 08	B-9G B-8G	R26	B-13C	R153	B-5D	R325 R326	A-5i B-5H	R523 R524	B-10E B-10E B-10E		B-10C B-11C
09	B-8G	R28	A-13D	R155	B-12D B-12D	R328	A-51	R525	B-10E	R652	B-11C
10 11	A-6G A-6F	R29 R30	A-13D A-13D	R156 R157	B-12H	R329 R330		R526 R527	B-10E B-10E	R653 R654	B-11C B-11C
12	B-4F A-4F	R31 R32	A-13D	R201	B-10G B-10G	R331	B-51 B-51		B-10E B-10F	R656 R657	B-11B B-11B
14	B-4G	R33	A-12D	R203	B-10G	R333	A-5I	R530	B-10F	R658	B-9A
15 16	A-4G B-10H	R34 R35	A-13D	R205	B-10G	R334 R335	A-5I B-5I	R531 R532	A-10E B-6E	R660	
17	A-101 A-9H	R36 R37	A-12D A-12D		B-10G B-9F	R336 R337	B-101 B-101	R533 R534	A-6E B-6E	R661 R662	B-10D B-10C
19	B-6I	R38	B-11E	n200	A-9G	R338	B-10i	R535	B-6E	R663	B-10C
20 21	A-6I A-6H	R39 R40	B-13E	R209 R210	A-9G	R340 R341	B-10J B-10J	R536 R537	B-6E B-6E	R665	B-10C A-10C
22 23	A-6H B-10l	R41 R42	B-13D A-12E	R211 R212	B-9G B-9G	R342 R343	B-10J B-10l	R538 R539	A-6E A-6E	R666 R667	B-10B B-10B
24	A-10J A-9I		A-12E A-12E	R213 R214	B-9G A-8G	R344 R345	A-10I B-9J	R540 R541	A-6E A-6E	R668 R669	B-10B B-10A
26	B-6J	R45	A-12E	R215	A-8G	R346	B-9I	R542	B-6E	R670	B-8E
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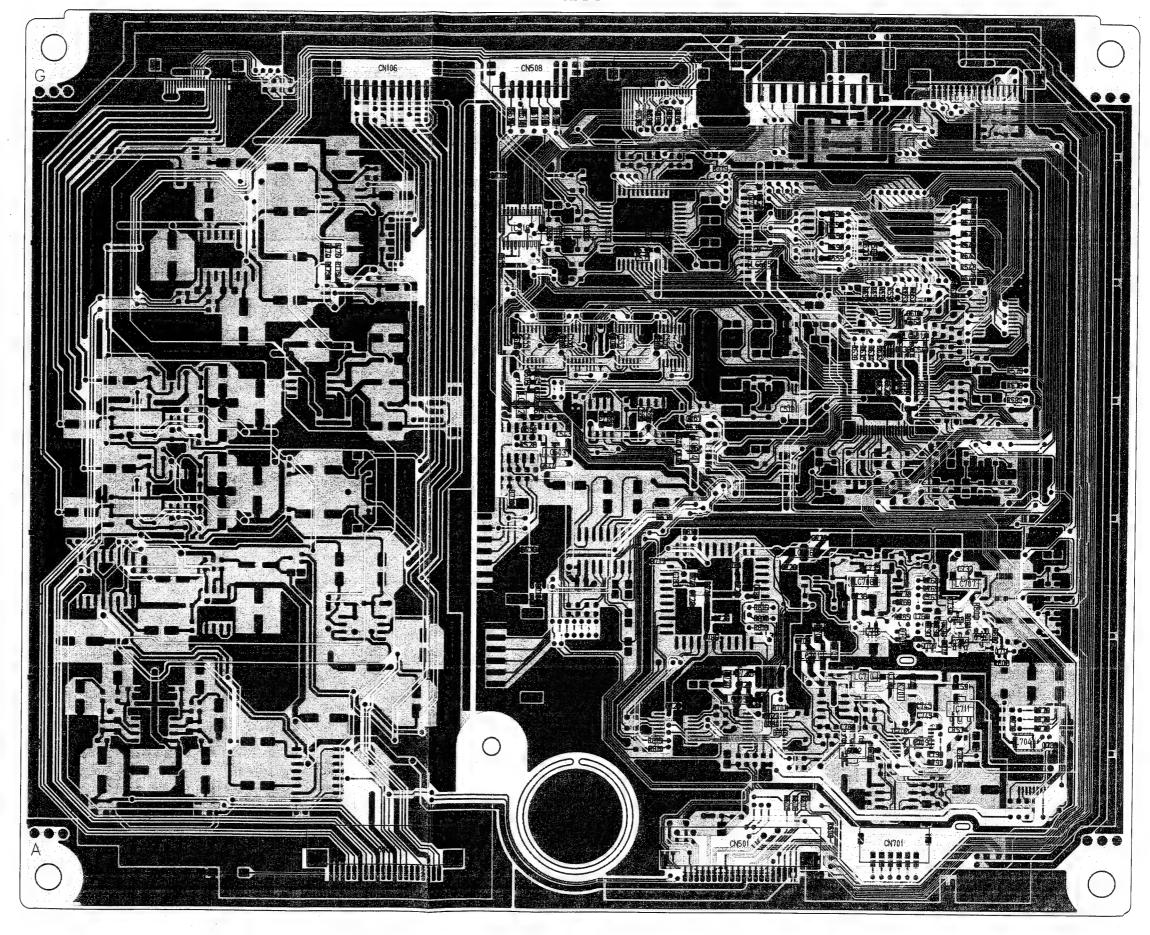


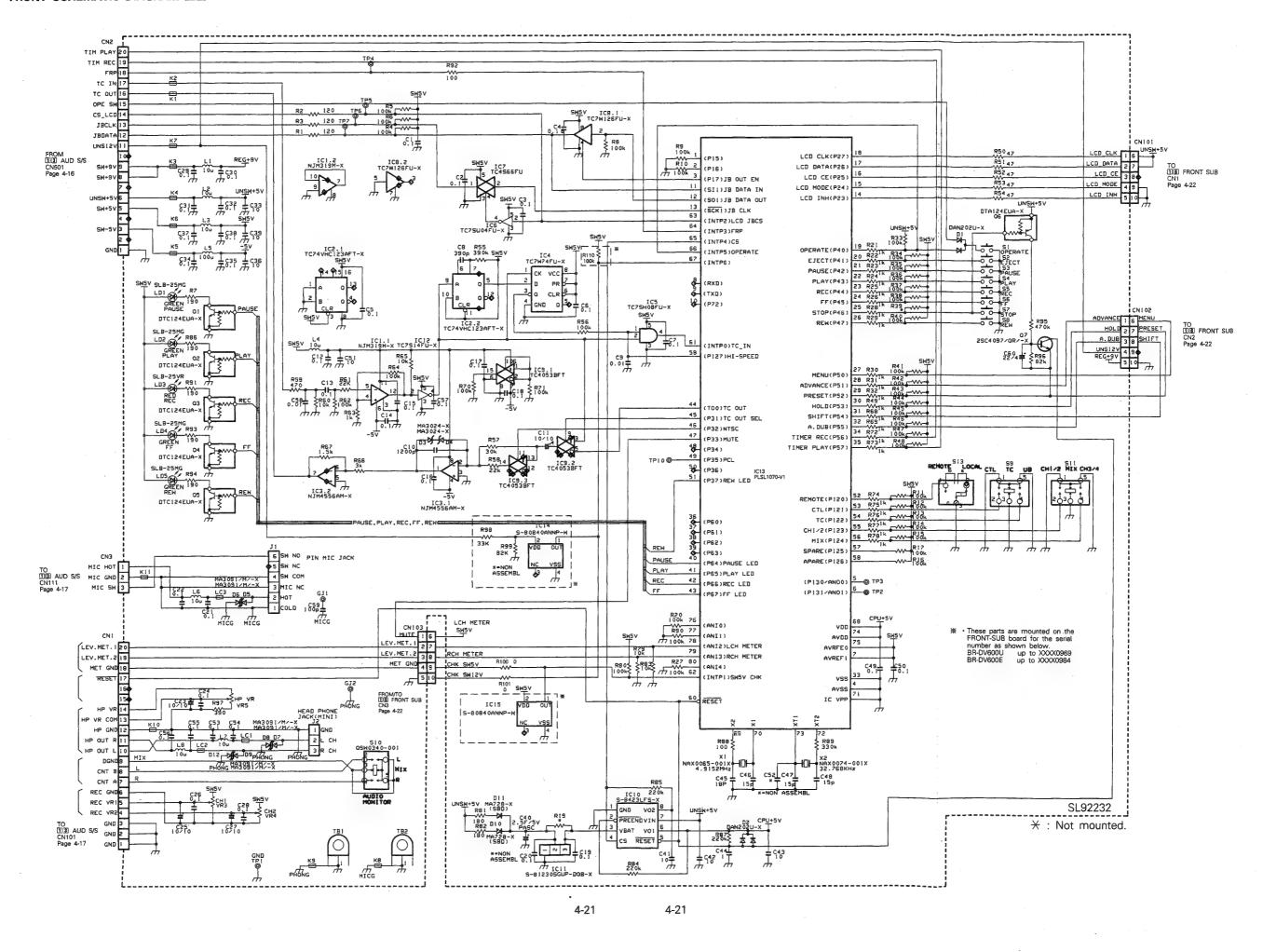


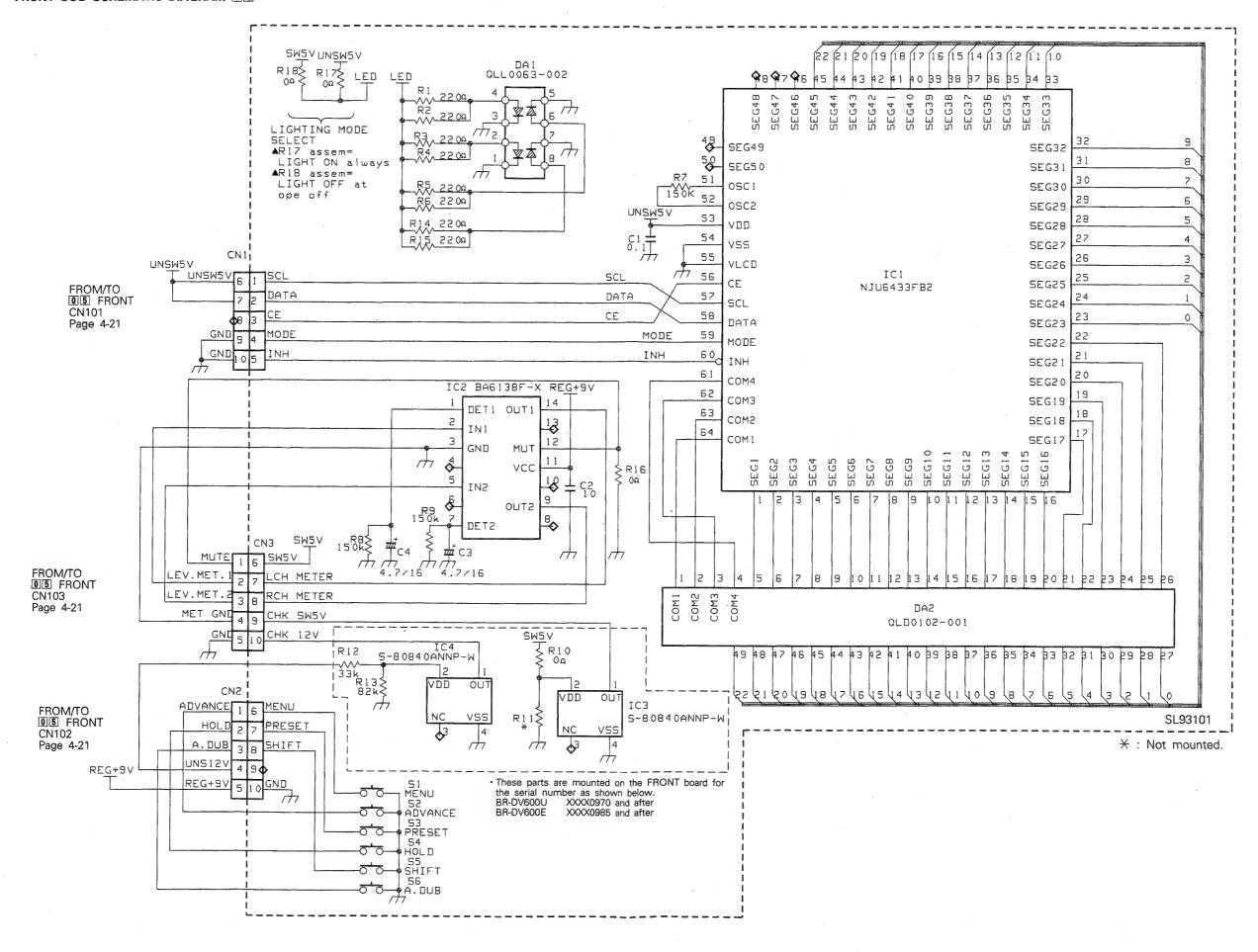
ADDRESS TABLE OF BOARD PARTS

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IC102	A-7F	R113	A-7E	R520	A-20	R602	A-3E	R765	A-3/	٩
IC103	A-7E		A-7E		A-20		A-5F		A-2E	
IC104	A-7F		A-8E		A-20	1	A-5F	1	A-2E	
IC105	A-7B		A-7D	J	A-5D		A-3D		B-30	
IC106	A-60	1	A-7D	1	A-50		A-4F		B-30	
IC107 IC108	A-8D A-8D		A-8E A-8E		A-50	1	A-5D B-3A		B-30 A-2E	
IC108	A-8B	1	A-7E		A-5D	1	A-4A	1	A-2E	
IC110	A-70	1	A-8D		B-5D	1	A-4A		A-2E	
IC111	A-80	1	A-7E		A-5D		A-4F	1	A-2A	
IC501	A-3E		A-7D		A-5D		A-2D	1	B-26	
IC502	A-4E	1	A-8D	1	A-50		A-2E		B-28	
IC503	A-5E	R125	A-8D	R532	A-50	R615	A-2E	R777	B-26	3
IC504	A-5E	R126	A-7D	R533	A-50	R616	A-2D	R778	A-2A	۱
IC505	A-5E		A-8D	R534	A-50	R617	A-2E	R779	A-2A	۱
1C506	A-5D		A-8D		B-4D		A-3E	1	A-2A	
IC507	A-5C	1	A-7A	1	A-3D		A-2E	1	A-2A	
IC508	A-5D	1	A-6A	1	A-3D		A-3E		A-2A	
IC509	A-3E	1	A-8D		A-4D		A-2E	1	A-2A	
IC510 IC511	A-4D A-4D	1	A-8D A-7D	1	A-4D A-5D	1	A-3E		A-2E B-30	
IC512	A-2E	R134	A-7D	1	A-5D	1	A-3E A-3E		A-3E	
IC513	A-3F	R135	A-7D	1	B-2F		A-3E		A-4B	
IC514	A-4F	R136	A-8C	1	B-2F	R626	A-3E	1	A-4B	- 1
IC515	A-5F	R137	A-8C	1	B-2F	R627	A-3E	5	A-3B	- 1
IC516	A-5E	R138	A-8C	1	B-2F	R628	A-3E	1	A-3B	-
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IC518	B-5F	R140	A-8D	R547	B-2F	R630	A-3E	R792	B-3B	ij
IC703	A-3B	R141	A-8B	R548	B-2F	R631	A-3E	R793	B-2B	٠
IC704	A-4B	R142	A-7B	R549	B-2E	R632	A-3E	R794	A-20	- 1
IC705	A-4B	R143	A-7C	R550	B-3E	R633	B-3E	R795	A-20	- 1
IC706	A-4B	R144	A-8B	R551	B-3E	R634	B-3E	R796	A-3C	- 1
IC707	A-4C	R145	A-8B	R552	B-3E	R635	B-3E	R797	B-3C	- 1
IC708 IC709	A-2C A-3C	R147	A-7B A-7B	R553 R554	B-3E B-3F	R636	B-3E A-5G	R798	B-3C	- 1
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IC712	B-3B	R150	A-8B	R557	B-3F	R702	A-3A	R802	B-2C	- (
IC713	A-3A	R151	A-8B	R558	B-3F	R703	A-3A	R803	B-2B	- 1
IC714	A-3B	R152	A-8B	R559	B-3F	R704	A-2D	R804	A-2C	
IC715	A-2B	R153	A-8B	R560	A-2D	R705	A-2D	R805	A-4B	ı
IC716	B-3C	R154	A-7C	R561	A-2D	R706	A-2D	R806	A-4B	ı
		R155	A-8C	R562	A-4D	R711	A-3B	R807	A-3B	١
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Q102	A-6D	R157	A-8C	R564	A-4E	R713	A-3B	R809	A-4B	I
Q103	A-7C	R158	A-6E	R565	A-4E	R714	A-3B	R810	A-4B	ı
Q104	A-7A	R159	A-6E	R566	A-4E	R715	A-3B	R811	A-4B	١
Q105 Q501	A-8A A-2G	R160 R161	A-6F A-6F	R567 R568	A-4E A-4D	R716	A-3B A-3B	R812 R813	B-4C A-5B	l
Q502	A-2G	R162	A-7C	R569	A-4D	R724	A-3B	R814	B-4B	1
Q503	A-5F	R163	A-7C	R570	A-3D	R725	A-3B	R815	B-4B	Ì
Q504	A-4D	R164	A-6C	R571	A-3D	R726	A-3B	R816	B-4C	l
Q703	A-3C	R165	A-6C	R572	A-3D	R728	A-3B	R817	B-4C	l
Q704	A-3C	R166	A-7C	R573	A-3D	R732	A-5B	R818	B-4C	l
Q705	A-2B	R167	A-8C	R574	A-3D	R733	A-4B	ĺ		l
Q706	A-2C		A-7F	R575	A-3D	R734	A-4B	VR101	A-8D	l
Q707	B-3C		A-7F		A-2D	,	A-3B	VR102		l
Q708	B-2C	1	A-7F		A-3E		A-4B	VR701	A-3B	ı
Q709	B-2C		A-8F		B-2E		A-5B			l
Q710	B-2C	R173	B-7E		B-2E	1	A-5B	C101	A-6E	ı
Q711	B-2C	R174 R175	B-7F		B-2D A-5F		B-4C	C102	A-7F	ļ
D501	A-2D		B-7E B-7F	R581 R582	B-5G		B-4C A-2C		A-7F A-6F	l
D502	A-2D	,	A-7G		B-4G		A-2C		A-OF	l
D503	A-4A	R502	A-7G		B-4G		A-2C	C106	A-7F	l
D504	A-4A	R503	A-7G		B-4G		A-2C		A-6D	ı
D701	A-2C		A-7G		A-5F	R746	A-3C		A-6E	l
D702	A-3C		B-4A		A-5F	R748	A-3C	C109	A-7E	
D703	B-3C	R506	B-4A	R588	A-5F	R751	A-3C	C110	A-7E	l
		R507	B-3A		A-5F	R752	A-3C	C111	A-6E	
R101	A-6F	R508		R590	A-5F		A-3C	C112	A-7E	
R102	A-6F	R509	B-5G		A-4F	R754	A-3C		A-7E	
R103	A-6F	R510	B-5G		A-4F		A-2C		A-7F	
R104	A-6F	R511	B-5G		A-5F		A-3B		A-7E	
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R106	A-6D		A-2G		A-5F		A-3B	C117	A-8F	
R107 R108	A-7D A-7D		A-2G A-2F	R596 R597		R759	A-3B	C118	A-7E	
7109		R516	A-2F A-5E		A-4F B-3F	R760 R761	A-3B A-3B	C119 C120	A-7F	
7110	A-6E		A-SE	R599	A-4F		A-3A		A-/F	
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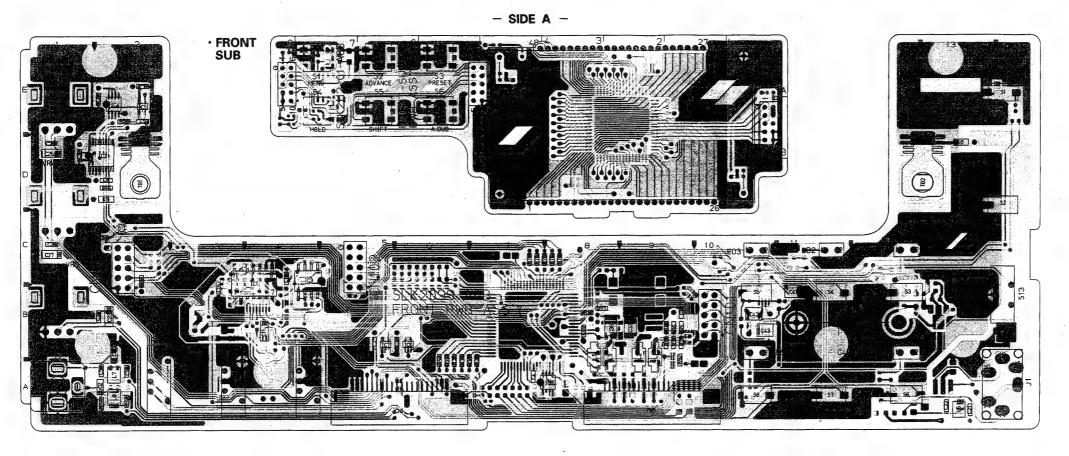
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C126	A-7B	C554	B-5F	C780	B-2B	B704	A-4/
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C130	A-60	C558	B-3E	C784	B-4C	B708	A-18
C131	A-6B	C559	B-3E	C785	B-4C	B709	A-10
C132	A-7C	C560	B-3E	C786	B-4C	B710	A-10
C133	A-8D	C561	B-5D			B711	A-1E
C134	A-7D	C562	A-5C	L501	A-3F	B712	A-1E
C135	A-7D	C563	B-3E	L702	A-2B	B713	A-1F
C136	A-7D	C564	B-5D	L703	A-2C	B714	B-50
C137	A-8D	C565	B-5D	L704	B-2B	B715	B-50
C138	A-8A	C566	B-5D	1		B716	B-50
C139	A-7A	C567	B-4D	TP101	A-8F	B717	B-40
C140	A-8B	C568	A-2E	TP102	A-8F	B718	B-6F
C141	A-7B	C569	B-3F		A-6D	B719	B-4F
C142	A-7C	C570	B-4F			i	*
C143	A-8B	C571	B-5F		A-7C	VA501	A-20
C144		C701	B-3C				
C145		C702		r	A-3D		A-1A
C146		C703		1	A-4D		
C147		C708	A-3B				
C148		C709		1			
C149		C710	A-3B			10004	,,,,,,
C150		C720	B-4B			LC501	B-3E
C151		C721		1		LC502	
C152		C722			A-4E		
C153		C723					
C154		C724		1			
C155			B-3C		A-3D		
C156		C726	B-4C			•	
C157	A-6B						
C501			B-4C			LC707	
C502			B-4C		1	LC708	
C502	B-4E		A-2C				
C504	B-5E		A-2C	TP518			
C505	B-5E					LC710	B-3B
		1				VEO4	A 4D
C506 C507	B-5E	ı		1		X501	A-4D
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C510	A-4D	ı	B-3C	TP523			
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C512	A-5C		A-3C A-3C	TP525 TP526			
C512	B-5D						
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		ſ	B-3B				
C515	B-3E	C744					
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	B-3E		B-3B				
	A-3D		A-3A				
C519		C748 C749		TP533			
C520	A-4E		A-3B	TP702			
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C534			B-3C	CN501			
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C540		C766		CN505			
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C542	B-5E	C768	A-2B				
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C544		C770	A-2B	CN701	B-3A		
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C547	B-4E	C773		B502	B-5F		
C548	B-4F	C774		B503	8-5F		
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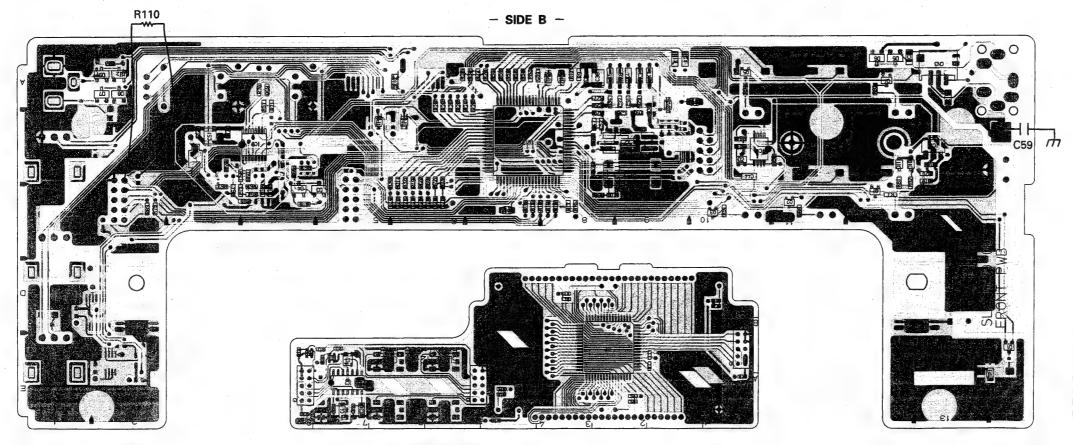






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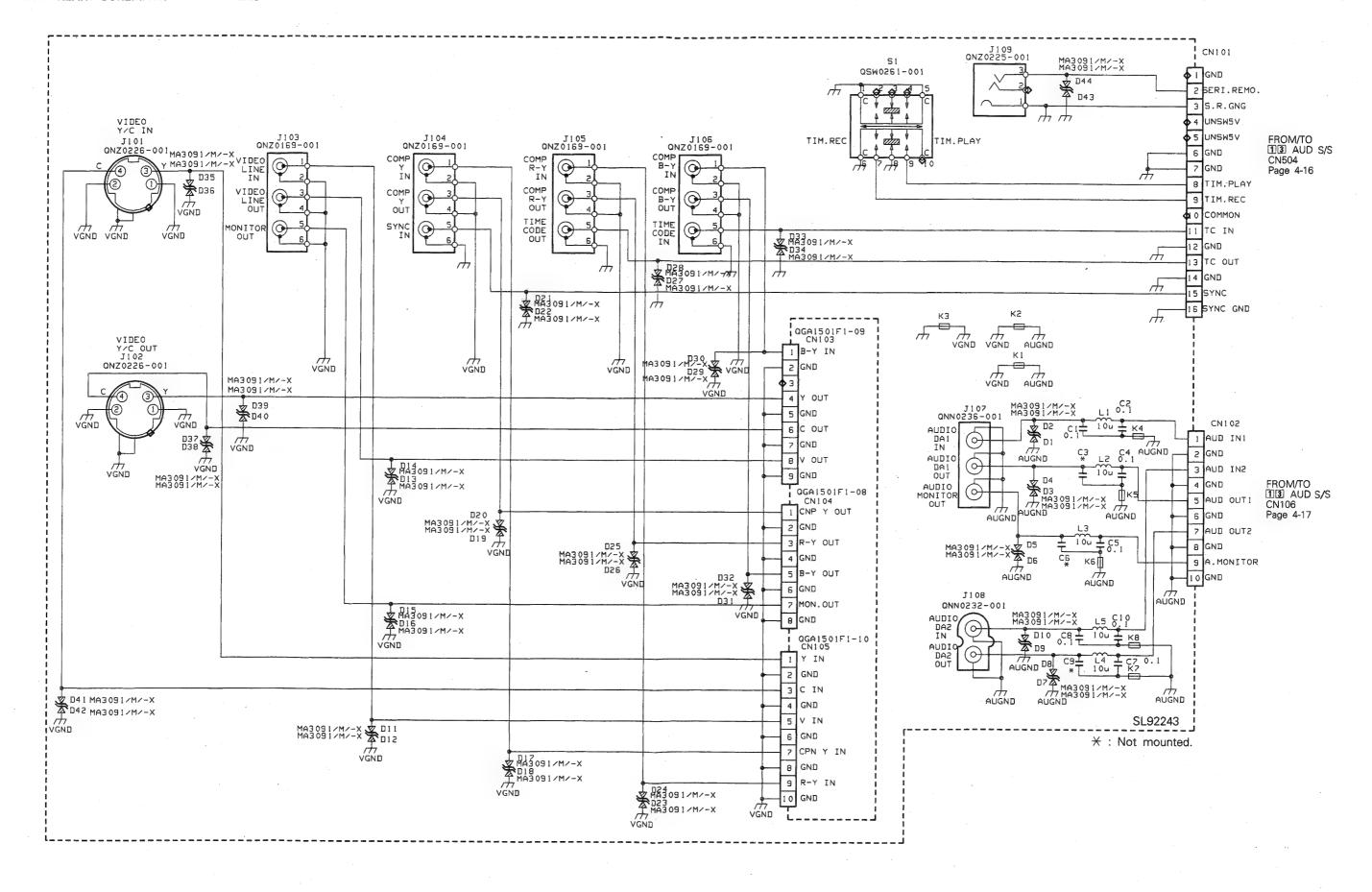


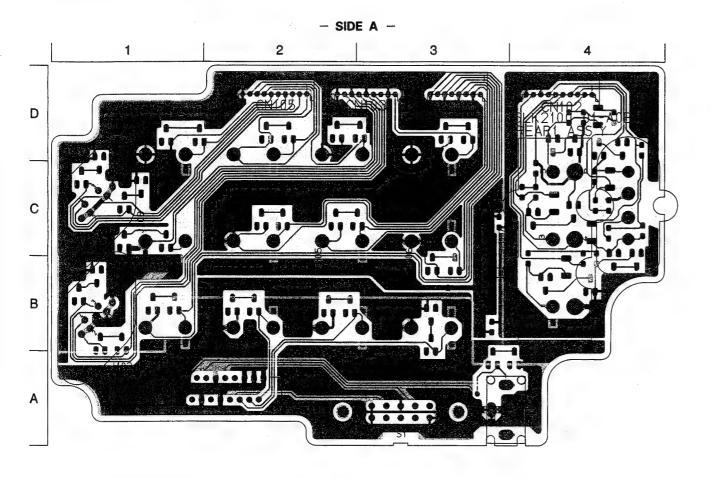


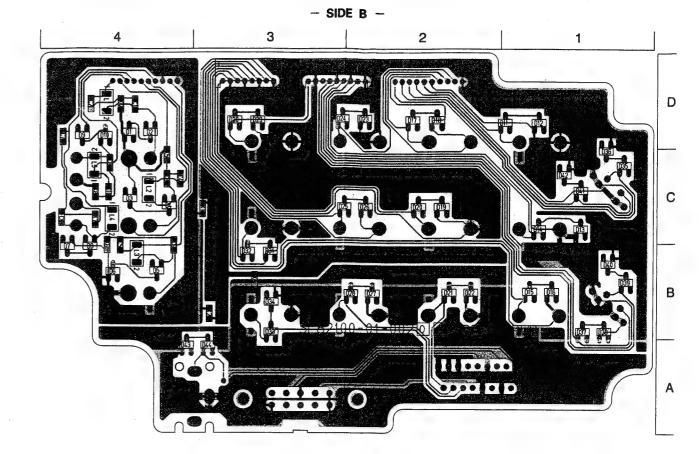
ADDRESS TABLE OF BOARD PARTS

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ICS			1		1		1	
ICG					I		1 .	
IC7			1				1	
ICS			1		1		1	
IC9			1		1			
IC10			1		1			
C11	IC9	B-4B	R51	B-7A	C27	A-1C	K11	. B-13A
IC12	IC10	B-11B	R52	B-7A	C28	A-1C	i	
R5	IC11	B-13B	R53	B-7A	C29	B-9A	X1	B-9B
R5	IC12	A-2C	R54	B-7A	C30	B-9A	X2	B-9B
R56			1		1			
Q1			1	-			Q1	Δ-1/E
C22	01	D 400			1		1	
Q3 B-10C R59 B-3B C35 B-8A S4 A-12E Q4 B-12A R60 B-4B C36 B-8A S5 A-11E Q5 B-10A R61 B-4B C36 B-9A S6 A-13E D1 B-14D R63 B-3B C39 A-9B S8 A-11A D2 B-10B R66 B-3B C40 A-13B S9 A-4A D3 B-5B R66 B-4B C42 A-11B S10 A-2A D4 B-4B R66 B-4B C42 A-11B S11 A-3A D5 B-13A R66 B-4B C44 B-11B S13 A-14E D6 B-12A R66 B-4B C44 B-11B S13 A-14E D7 B-2A R71 B-4A C46 B-8B J2 A-1A D9 B-2A R71 B-4A C47 B-8B<			1		1		1	
C4					1		,	
R61			1		1		S4	A-12B
R62	Q4	B-12A	R60	B-4B	C36	B-8A	S5	A-11B
D1 B-14D R63 B-3B C39 A-9B S8 A-11A D2 B-10B R64 B-3B C40 A-13B S9 A-4A D3 B-5B R66 B-8C C41 A-11B S11 A-2A D4 B-8B R66 B-8B C42 A-11B S11 A-2A D5 B-13A R67 B-4B C43 A-11B S13 A-14E D6 B-12A R68 B-6B C45 B-9C J1 A-14A D9 B-2A R70 B-4A C46 B-8B J2 A-1A D10 B-13B R72 B-6B C44 B-8B LD1 A-1A D11 B-13B R73 B-6B C44 B-8B LD2 A-1A D12 B-2A R74 A-7C C50 B-8B LD3 A-10A R1 A-9B R78 A-8C C54 A-2A	Q5	B-10A	R61	B-4B	C37	B-9A	S6	A-13A
D1 B-14D R63 B-3B C39 A-9B S8 A-11A D2 B-10B R64 B-3B C40 A-13B S9 A-4A D3 B-5B R66 B-8C C41 A-11B S11 A-2A D4 B-8B R66 B-8B C42 A-11B S11 A-2A D5 B-13A R67 B-4B C43 A-11B S13 A-14E D6 B-12A R68 B-6B C45 B-9C J1 A-14A D9 B-2A R70 B-4A C46 B-8B J2 A-1A D10 B-13B R72 B-6B C44 B-8B LD1 A-1A D11 B-13B R73 B-6B C44 B-8B LD2 A-1A D12 B-2A R74 A-7C C50 B-8B LD3 A-10A R1 A-9B R78 A-8C C54 A-2A			R62	B-4B	C38	B-9A	S7	A-12A
D2 B-10B R64 B-3B C40 A-13B S9 A-4A D3 B-5B R65 B-4C C41 A-11B S10 A-2A D5 B-13A R67 B-4B C42 A-11B S11 A-3A D6 B-12A R68 B-6B C44 B-11B S11 A-3A D6 B-12A R68 B-6B C44 B-11B S13 A-14E D6 B-12A R69 B-6B C44 B-11B D12 A-14A A-7C B-6B C48 A-8B LD1 A-14A A-14B B-13B R73 B-6B C44 B-11B LD2 A-1A A-1A A-1AB LD3 A-1A A-1AB LD3 A-1A A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB A-1AB	D1	B-14D	!		1		1	
D3 B-5B R65 B-4C C41 A-11B S10 A-2A D4 B-4B R66 B-4B C42 A-11B S11 A-3A D5 B-13A R66 B-6B C44 B-11B S13 A-14E D6 B-12A R68 B-6B C44 B-11B S13 A-14E D7 B-2A R69 B-6B C44 B-8B J2 A-1A D9 B-2A R70 B-4A C46 B-8B J2 A-1A D9 B-2A R71 B-4B C46 B-8B J2 A-1A D10 B-13B R73 B-6B C48 A-8B LD3 A-10 D11 B-13B R73 B-6B C48 A-8B LD4 A-13A D12 B-2A R74 A-7C C55 B-8B LD5 A-10A R1 A-9B R78 A-8C C55 A-2A<			1		1		1	
D4 B-4B R66 B-4B C42 A-11B S11 A-3A D5 B-13A R67 B-4B C43 A-11B S13 A-14E D6 B-12A R68 B-6B C44 B-11B C7 B-2A R70 B-6B C45 B-9C J1 A-14A D8 B-2A R70 B-6B C46 B-8B J2 A-1A D9 B-2A R71 B-6B C44 B-8B LD A-1A D11 B-13B R73 B-6B C49 A-8B LD2 A-1A D11 B-13B R73 B-6B C49 A-8B LD3 A-10A R1 A-9B R76 A-8C C50 B-8B LD3 A-10A R1 A-10B R77 A-8C C53 A-2A GJ1 B-14E R1 A-10B R77 A-8C C55 A-2A GJ2 B-2B			1		1		I	
D5 B-13A R67 B-4B C43 A-11B S13 A-14E D6 B-12A R68 B-6B C44 B-11B J1 A-14A D7 B-2A R70 B-4A C46 B-8B J2 A-1A D9 B-2A R71 B-4A C46 B-8B LD2 A-1A D10 B-13B R72 B-6B C48 A-8B LD2 A-1A D11 B-13B R73 B-6B C49 A-8B LD2 A-1A D12 B-2A R74 A-7C C50 B-8A LD3 A-10A R1 A-9B R76 A-8C C51 B-3B LD5 A-10A R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R2 A-10B R76 A-8C C55 A-2A GJ1 B-14E R3 A-9B R78 A-8C C55 A-			1		1		I	
D6 B-12A R68 B-6B C44 B-11B J1 A-14A D8 B-2A R70 B-4A C46 B-8B J2 A-1A D9 B-2A R70 B-4A C46 B-8B J2 A-1A D10 B-13B R72 B-6B C48 A-8B LD1 A-14A D11 B-13B R73 B-6B C49 A-8B LD2 A-11C D11 B-13B R73 B-6B C49 A-8B LD3 A-10C R1 A-9B R76 A-8C C51 B-3B LD4 A-13A R1 A-9B R76 A-8C C52 B-8B LD5 A-10A R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R81 B-13B C57 A-			1		C42		S11	A-3A
D7 B-2A R69 B-6B C45 B-9C J1 A-144 D8 B-2A R70 B-4A C46 B-8B J2 A-1A D9 B-2A R71 B-4A C47 B-8B LD1 A-1A D10 B-13B R73 B-6B C48 A-8B LD1 A-130 D11 B-13B R73 B-6B C49 A-8B LD2 A-10 D12 B-2A R74 A-7C C50 B-8A LD2 A-10 R1 A-9B R76 A-8C C51 B-3B LD4 A-134 R1 A-9B R76 A-8C C52 B-8B LD5 A-10A R1 A-10B R77 A-8C C53 A-2A GJJ B-14E R1 A-10B R79 A-8C C55 A-2A GJJ B-14E R1 A-12C R82 B-13B B-2C C55	D5	B-13A	R67	B-4B	C43	A-11B	S13	A-14B
D8 B-2A R70 B-4A C46 B-8B J2 A-1A D9 B-2A R71 B-4A C47 B-8B LD1 A-130 D10 B-13B R72 B-6B C48 A-8B LD1 A-130 D11 B-13B R73 B-6B C49 A-8B LD2 A-110 R1 A-9B R76 A-8C C51 B-3B LD4 A-124 R1 A-9B R76 A-8C C52 B-8B LD5 A-104 R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R3 A-9B R78 A-8C C55 A-2A GJ2 B-14E R4 A-9B R78 A-8C C55 A-2A GJ2 B-2B R6 A-13B B-2C C56 A-2A GJ2 B-2B R6 A-13B B-8D C56 A-2A GJ2 B-2	D6	B-12A	R68	B-6B	C44	B-11B]	
D8 B-2A R70 B-4A C46 B-8B J2 A-1A D9 B-2A R71 B-4A C47 B-8B LD1 A-130 D10 B-13B R72 B-6B C48 A-8B LD1 A-130 D11 B-13B R73 B-6B C49 A-8B LD2 A-110 R1 A-9B R76 A-8C C51 B-3B LD4 A-124 R1 A-9B R76 A-8C C52 B-8B LD5 A-104 R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R3 A-9B R78 A-8C C55 A-2A GJ2 B-14E R4 A-9B R78 A-8C C55 A-2A GJ2 B-2B R6 A-13B B-2C C56 A-2A GJ2 B-2B R6 A-13B B-8D C56 A-2A GJ2 B-2	D7	B-2A	R69	B-6B	C45	B-9C	J1	A-14A
D9 B-2A R71 B-4A C47 B-8B LD1 A-130 D10 B-13B R72 B-6B C48 A-8B LD1 A-130 D11 B-13B R73 B-6B C49 A-8B LD2 A-110 D12 B-2A R76 A-8C C50 B-8A LD3 A-100 R7 A-8C C51 B-3B LD4 A-134 R1 A-9B R76 A-8C C52 B-8B LD5 A-104 R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R78 A-8C C55 A-2A GJ2 B-2B R5 A-10B R78 A-8C C55 A-2A GJ2 B-2B R6 A-13B B-5C R62 B-13B B-2C C55 <td< td=""><td></td><td></td><td></td><td></td><td>C46</td><td></td><td>l</td><td></td></td<>					C46		l	
D10 B-13B R72 B-6B C48 A-8B LD1 A-13C D11 B-13B R73 B-6B C49 A-8B LD2 A-11C D12 B-2A R74 A-7C C50 B-8A LD3 A-10C R1 A-9B R76 A-8C C52 B-8B LD4 A-13A R2 A-10B R77 A-8C C53 A-2A R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E GJ2 B-14E GJ2 B-14E GJ2 B-2B R3 A-9A R3 A-9A R3 R3 B-14E GJ2 B-2B R3 B-2C C55 A-2A GJ1 B-14E GJ2 B-2B R3 B-2C C55 A-2A GJ1 B-14E GJ2 B-2B R3 B-2C C55 A-2A GJ1 B-14E GJ2 B-2B B-13B C57 A-2C C9 A-16C L9			1				102	,,,,,
D11 B-13B R73 B-6B C49 A-8B LD2 A-110 D12 B-2A R74 A-7C C50 B-8A LD3 A-100 R1 A-9B R76 A-8C C52 B-8B LD5 A-10A R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R79 B-2C C55 A-2A GJ1 B-14E R4 A-9B R80 A-2B C56 A-2A GJ2 B-2B R5 A-10B R80 A-2B C55 A-2A GJ2 B-2B R6 A-9B R80 B-13B C58 B-4B GJ2 B-2B R7 B-12C R82 B-13B B-2C C55 A-2A GJ1 B-14E R9 B-8A R81 B-10B			1		4			4 400
D12 B-2A R74 A-7C C50 B-8A LD3 A-100 R1 A-9B R76 A-8C C52 B-8B LD4 A-10A R2 A-10B R77 A-8C C53 A-2A GJ1 B-10A R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R79 B-2C C55 A-2A GJ1 B-14E R5 A-10B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R81 B-13B C57 A-2C GJ2 B-2B R7 B-12C R82 B-13B C56 A-2A GJ2 B-2B R8 B-8A R84 B-10B L1 A-9A B-14B B-12A R91 B-10B L4 B-3B B-11B L2 A-9A B-14B B-10B B-14B B-14B B-14B B-14B B-14B B-14B<					,		1	
R1 A-9B R75 A-8C C51 B-3B LD4 A-13A R2 A-10B R776 A-8C C52 B-8B LD5 A-10A R3 A-9B R77 A-8C C53 A-2A GJ1 B-10A R4 A-9B R79 B-2C C55 A-2A GJ1 B-14E R5 A-10B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R81 B-13B C57 A-2C GJ2 B-2B R7 B-12C R82 B-13B C58 B-4B B-8B B-10B L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-13A L1 A-14 A-14<			1				LD2	
R1 A-9B R76 A-8C C52 B-8B LD5 A-10A R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R87 B-2C C55 A-2A GJ2 B-2B R5 A-10B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R81 B-13B C57 A-2C GJ2 B-2B R7 B-12C R82 B-13B C57 A-2C GJ2 B-2B R8 B-8A R84 B-10B L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-9A L1 A-10A A-10A L1 A-9A	D12	B-2A		A-7C		B-8A	LD3	A-10C
R2 A-10B R77 A-8C C53 A-2A GJ1 B-14E GJ2 B-14E GJ1 B-14E GJ1 B-14E GJ2 B-14E GJ2 B-14E GJ1 B-14E GJ2 A-14E B-14E GJ2 B-14E GJ2 B-14E GJ2 B-14E GJ2 B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E B-14E <td></td> <td></td> <td>R75</td> <td>A-8C</td> <td>C51</td> <td>B-3B</td> <td>LD4</td> <td>A-13A</td>			R75	A-8C	C51	B-3B	LD4	A-13A
R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R80 A-2B C55 A-2A GJ2 B-2B R5 A-10B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R8 B-13B C57 A-2C R9 B-8A R8 B-13B C58 B-4B B-4B B-8C B-8B B-8B B-8B B-8B B-8B B-8B B-11B L2 A-9A B-11B L2 A-9A B-11B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-14E B-14E B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B <td>R1</td> <td>A-9B</td> <td>R76</td> <td>A-8C</td> <td>C52</td> <td>B-8B</td> <td>LD5</td> <td>A-10A</td>	R1	A-9B	R76	A-8C	C52	B-8B	LD5	A-10A
R3 A-9B R78 A-8C C54 A-2A GJ1 B-14E R4 A-9B R80 A-2B C55 A-2A GJ2 B-2B R5 A-10B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R80 A-2B C56 A-2A GJ2 B-2B R6 A-9B R8 B-13B C57 A-2C R9 B-8A R8 B-13B C58 B-4B B-4B B-8C B-8B B-8B B-8B B-8B B-8B B-8B B-11B L2 A-9A B-11B L2 A-9A B-11B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-10B B-14E B-14E B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B B-14B <td>R2</td> <td>A-10B</td> <td>R77</td> <td>A-8C</td> <td>C53</td> <td>A-2A</td> <td>l</td> <td></td>	R2	A-10B	R77	A-8C	C53	A-2A	l	
R4 A-9B R79 B-2C C55 A-2A GJ2 B-2B R5 A-10B R80 A-2B C56 A-2A C56 A-2A R6 A-9B R81 B-13B C57 A-2C C58 B-4B B-12C R8 B-13B C58 B-4B B-16 <					1		GH	R-14R
R5 A-10B R80 A-2B C56 A-2A R6 A-9B R81 B-13B C57 A-2C R7 B-12C R82 B-13B C58 B-4B R8 B-8A R83 B-2C B-8C R87 B-10B L1 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A R18 A-2A R17 B-8C R92 A-10A TP1 B-14E R19 B-13B			1		I		1	
R6 A-9B R81 B-13B C57 A-2C R7 B-12C R82 B-13B C58 B-4B R8 B-8A R83 B-2C B-4B R9 B-8A R84 B-10B L1 A-9A R10 B-8A R85 B-11B L2 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R15 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A R18 A-2A R17 B-8C R92 A-10A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A					1		GUZ	D-20
R7 B-12C R82 B-13B C58 B-8B R8 B-8A R83 B-2C B-4B R83 B-2C R9 B-8A R84 B-10B L1 A-9A R10 B-8A R85 B-11B L2 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-7C R86 B-11C L3 A-9A R11 B-8C R87 B-10B L4 B-3B R13 B-8C R89 B-8B L6 A-13A R15 B-8C R91 B-10C L8 A-2A R16 B-8C R92 A-10A L8 A-2A R17 B-8C R92 A-10A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R21 B-7A VR3 A-1E			1.		1			
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R9 B-8A R84 B-10B L1 A-9A R10 B-8A R85 B-11B L2 A-9A R11 B-7C R86 B-11C L3 A-9A R12 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A R1 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R19 B-14E R192 B-8A T192 B-8A					C58	B-4B		
R10 B-8A R85 B-11B L2 A-9A R11 B-7C R86 B-11C L3 A-9A R12 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A R18 A-2A R17 B-8C R92 A-10A R18 A-2A R17 B-8C R92 A-10A R1P2 B-8A R20 B-8A R94 B-10A TP1 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5	R8	B-8A	R83	B-2C				
R11 B-7C R86 B-11C L3 A-9A R12 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A R8 A-2A R17 B-8C R92 A-10A R8 A-2A R17 B-8C R92 A-10A R8 B-2A R19 B-138 R94 B-10A TP1 B-14E R19 B-138 R94 B-10A TP2 B-8A R20 B-8A L2 TP1 B-14E R92 R21 B-7A VR3 A-1E TP4 B-10A TP3 B-8A R21 B-7A VR4	R9	B-8A	R84	B-10B	L1	A-9A		
R111 B-7C R86 B-11C L3 A-9A R12 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A TP3 B-8A R20 B-8A R93 B-12A TP1 B-14E R92 B-8A TP3 B-8A TP3 B-8A TP3 B-8A TP3 B-8A TP3 B-8A TP4 B-10A TP1 B-8A TP3 B-8A TP3 B-8A TP4 B-10A TP3 B-8A TP3 B-8A TP4	R10	B-8A	R85	B-11B	12	A-9A		
R12 B-8C R87 B-10B L4 B-3B R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A L8 A-2A R17 B-8C R92 A-10A L8 A-2A R17 B-8C R92 A-10A L8 A-2A R17 B-8C R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R21 B-7A VR3 A-1E TP4 B-10A R21 B-7A VR3 A-1E TP5 B-6B R22 B-7A VR4 A-1C TP5 B-6B R22 B-7A VR5 A-1B TP6	R11	B-7C	R86	B-11C	L3	A-9A		
R13 B-8C R88 B-8C L5 A-8A R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A A-12A R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R20 B-8A CP1 TP2 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R22 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B TP7 B-9A R27 B-6A C3 A-6B LC1 A-2A			ı		ı			
R14 B-8C R89 B-8B L6 A-13A R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A TP1 B-14E R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R20 B-8A TP3 B-8A TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-6A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC3			ſ		1			
R15 B-8C R90 B-8A L7 A-2A R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A TP1 B-14E R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R20 B-8A TP2 B-8A TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP10 B-7C R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R29 B-6A C5 A-1D LC3								
R16 B-8C R91 B-10C L8 A-2A R17 B-8C R92 A-10A TP1 B-14E R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R20 B-8A R21 TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP10 B-7C R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC2 A-2A R31 B-6B C6 A-2E TB1 A-2D			1		1			
R17 B-8C R92 A-10A R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R20 B-8A TP3 B-8A TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP10 B-7C R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B TP10 B-7C R27 B-8A C3 A-6B LC1 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB2 A-13D R33 B-7A C9 A-2D TB2 A-13D			1		1			
R18 A-8B R93 B-12A TP1 B-14E R19 B-13B R94 B-10A TP2 B-8A R20 B-8A TP3 B-8A TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP10 B-7C R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C7 A-2E TB2 A-13D R33 B-7A C9 A-2D TB2			1		L8	A-2A		
R19 B-13B R94 B-10A TP2 B-8A R20 B-8A TP3 B-8A TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP7 B-9A R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-6A C3 A-6B LC1 A-2A R28 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C7 A-2E TB1 A-2D R33 B-7A C10 B-4C CN1 A-6A R33 B-7A C10 B-4C CN1								
R20 B-8A TP3 B-8A R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B TP5 R23 B-7A VR5 A-1B TP6 B-5B TP7 B-9A R25 B-7A C1 A-10B TP10 B-7C B-7C R26 B-6A C2 A-5B TP10 B-7C B-7C R26 B-6A C3 A-6B LC1 A-2A LC2 A-2A R28 B-6A C4 A-7A LC3 B-13A	R18	A-8B	R93	B-12A	TP1	B-14E		
R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP7 B-9A R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC2 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C7 A-2E TB2 A-13D R33 B-7A C9 A-2D TB2 A-13D R33 B-7A C10 B-4C CN1 A-6A R35 A-7A C11 A-4B CN2	R19	B-13B	R94	B-10A	TP2	B-8A		
R21 B-7A VR3 A-1E TP4 B-10A R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP7 B-9A R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC2 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C7 A-2E TB2 A-13D R33 B-7A C9 A-2D TB2 A-13D R33 B-7A C10 B-4C CN1 A-6A R35 A-7A C11 A-4B CN2								
R22 B-7A VR4 A-1C TP5 B-6B R23 B-7A VR5 A-1B TP6 B-5B R24 B-7A C1 A-10B TP70 B-9A R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC2 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C8 A-2D TB2 A-13D R32 B-6B C8 A-2D TB2 A-13D R33 B-7A C10 B-4C CN1 A-6A R34 B-7A C10 B-4C CN1 A-6A R35 A-7A C11 A-4B CN101	R21		VR3	A-1E	ļ.			
R23 B-7A VR5 A-1B TP6 B-5B TP7 B-9A R24 B-7A C1 A-10B TP70 B-7C B-9A TP70 B-7C B-9A TP70 B-7C B-9A TP70 B-7C B-9A TP70 B-7C B-13A			l .		1			
R24 B-7A TP7 B-9A R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC2 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C7 A-2E TB1 A-2D R32 B-6B C8 A-2D TB2 A-13D R33 B-7A C9 A-2D TB2 A-13D R33 B-7A C10 B-4C CN1 A-6A R35 A-7A C11 B-4B CN2 A-9A R35 A-7A C12 B-3B CN1 A-10B R37 A-7A C13 B-4B CN101 A-10B			ı		l .			
R25 B-7A C1 A-10B TP10 B-7C R26 B-6A C2 A-5B LC1 A-2A R27 B-8A C3 A-6B LC1 A-2A R28 B-6A C4 A-7A LC2 A-2A R29 B-6A C5 A-1D LC3 B-13A R30 B-6B C6 A-2E TB1 A-2D R31 B-6B C7 A-2E TB1 A-2D R32 B-6B C8 A-2D TB2 A-13D R33 B-7A C9 A-2D TB2 A-13D R34 B-7A C10 B-4C CN1 A-6A R35 A-7A C11 A-4B CN2 A-9A R36 A-7A C12 B-3B CN10 A-10B R38 A-6A C14 B-4B CN101 A-10B R39 A-6A C15 A-3B CN103			1110	A 10				
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R30 B-6B C6 A-2E R31 B-6B C7 A-2E R32 B-6B C7 A-2E R32 B-6B C8 A-2D R33 B-7A C9 A-2D R34 B-7A C10 B-4C CN1 A-6A R35 A-7A C11 A-4B CN2 A-9A R36 A-7A C12 B-3B CN3 B-13A R37 A-7A C13 B-4B CN101 A-10B R38 A-6A C14 B-4B CN102 A-5C R39 A-6A C15 A-3B CN103 A-2C R40 A-6A C16 A-4B R41 B-6C C17 B-3B K1 B-10A	R29	B-6A	C5	A-1D	LC3	B-13A		
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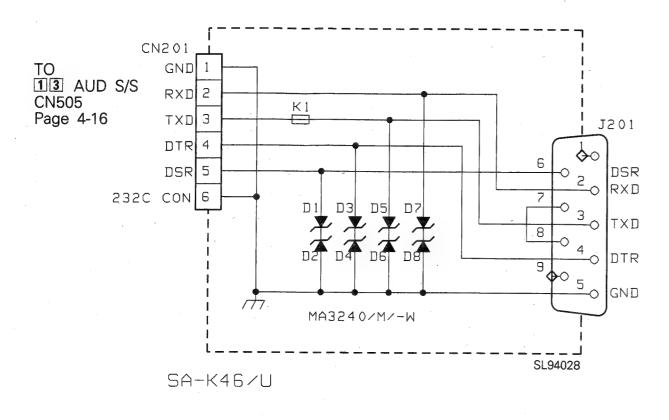


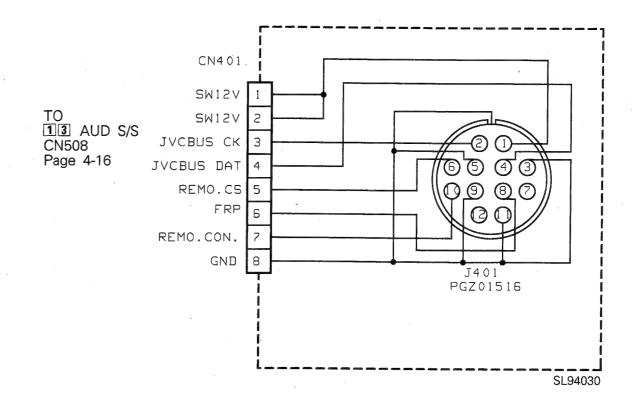


ADDRESS TABLE OF BOARD PARTS
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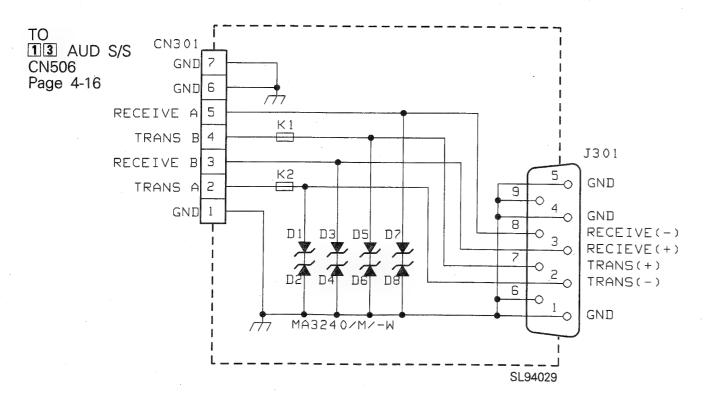
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D4	B-4C	D31	B-3B	12	B-4C	CN104	A-3D
D5	B-4B	D32	B-3B	L3	B-4B	CN105	A-2D
D6	B-4B	D33	B-3B	L4	B-4C		
D7	B-4B	D34	B-3B	L5	B-4C	S1	A-3A
D8	B-4B	D35	B-1C				
D9 .	B-4D	D36	B-1C	J101	A-1C		
D10	B-4D	D37	B-1B	J102	A-1B		
D11	B-1D	D38	B-1B	J103	A-1C		
D12	B-1D	D39	, B-1B	J104	A-2C		
D13	B-1C	D40	B-1B	J105	A-3C		
D14	B-1C	D41	B-1C	J106	A-3C		
D15	B-1B	D42	B-1C	J107	A-4C		
D16	B-1B	D43	B-3A	J108	A-4C		
D17	B-2D	D44	B-3A	J109	A-3A		
D18	B-2D						
D19	B-2C	C1	B-4D	K1	B-3C		
D20	B-2C	C2	B-4D	K2	B-3B		
D21	B-2B	C3	B-4C	КЗ	B-3B		
D22	B-2B	C4	B-4C	K4	B-4D		
D23	B-2D	C5	B-4B		B-4C		
D24	B-2D	C6	B-4B	K6	B-4B		
D25	B-2C	C7	B-4D		B-4C		
D26	B-2C	C8	B-4C	K8	B-4C		
D27	B-2B	C9	B-4C				

· REAR4

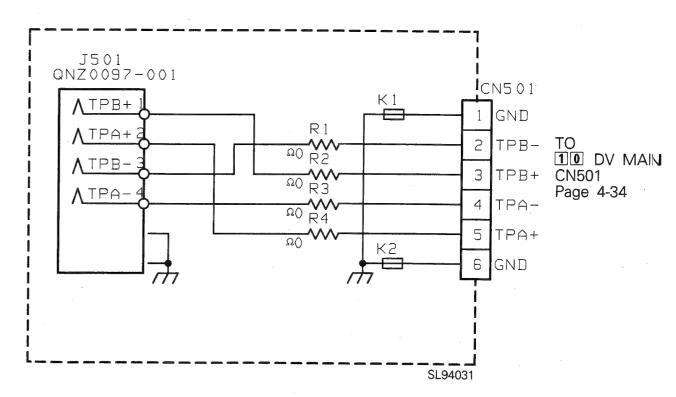




· REAR3



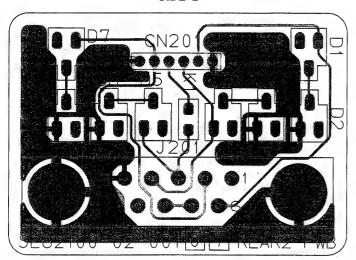
· REAR5



4.17 REAR2(OPTION:SA-K46), REAR3, REAR4, REAR5 CIRCUIT BOARD

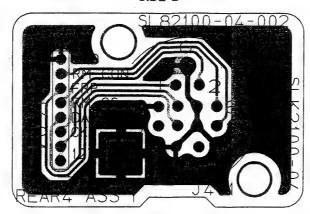
· REAR2

- SIDE B -



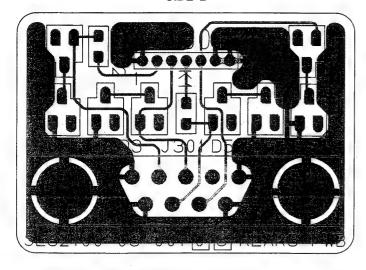
· REAR4

- SIDE B -



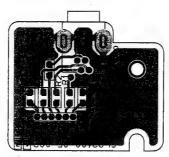
· REAR3

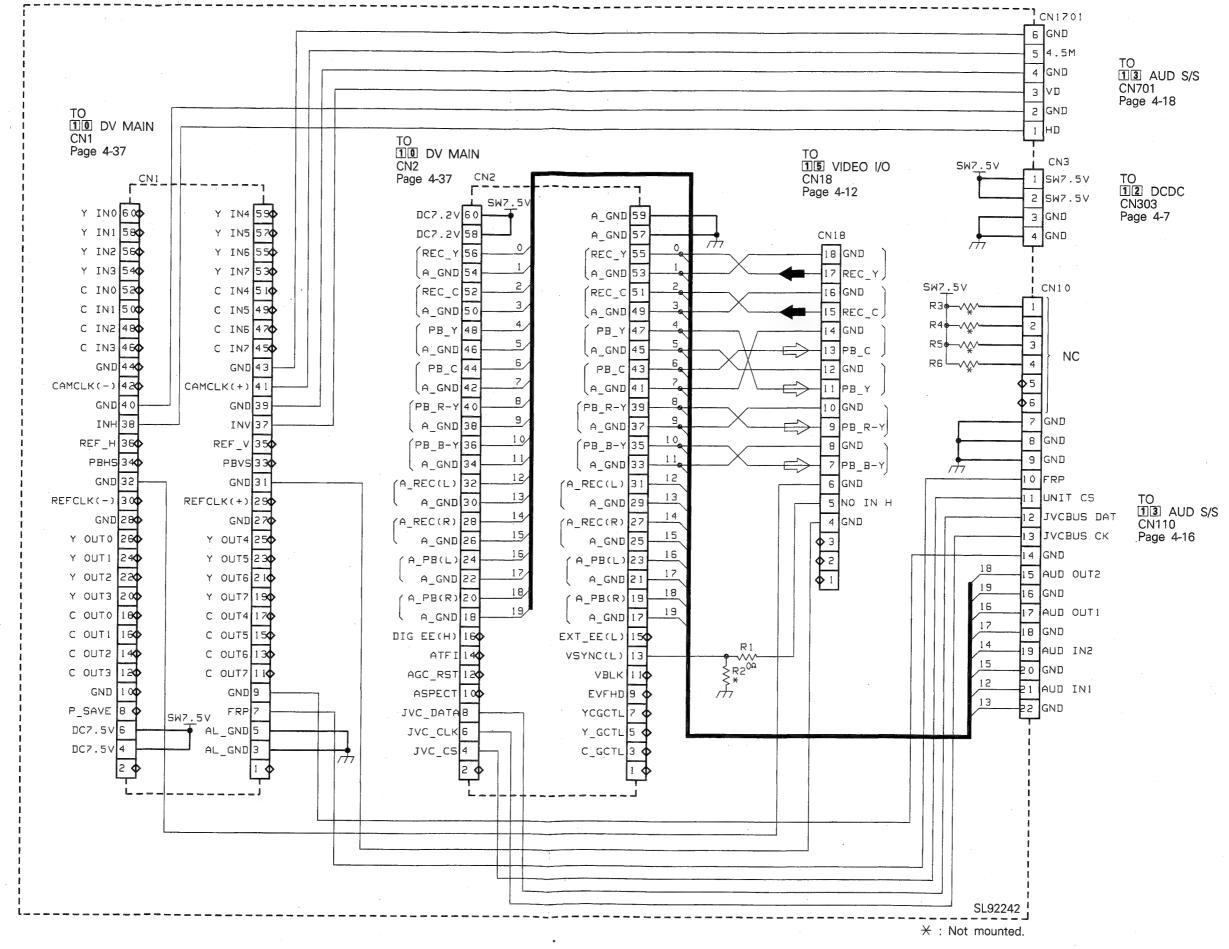
- SIDE B -



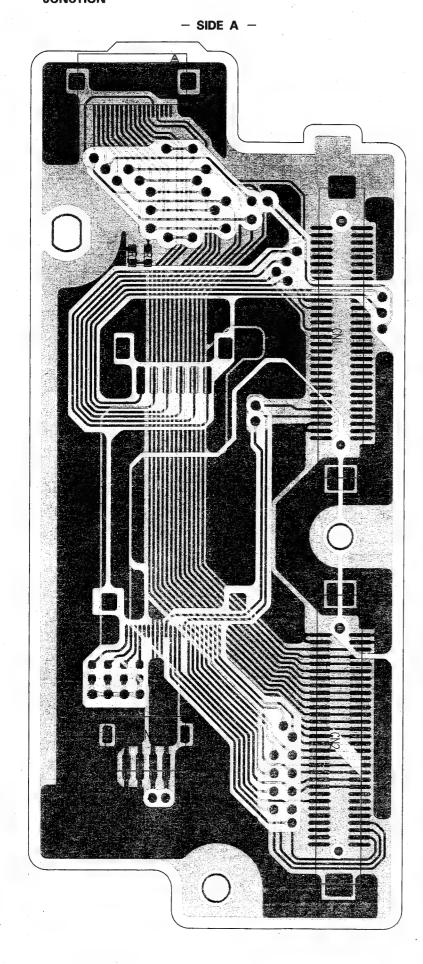
· REAR5

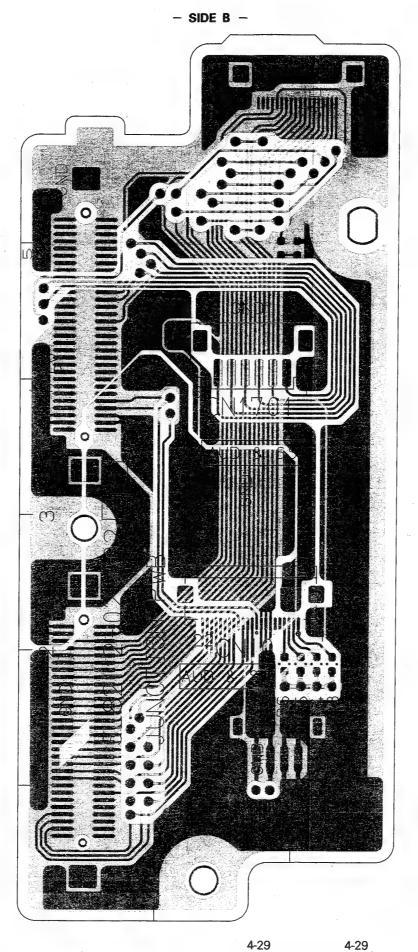
- SIDE B -

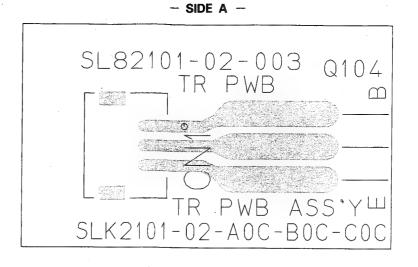




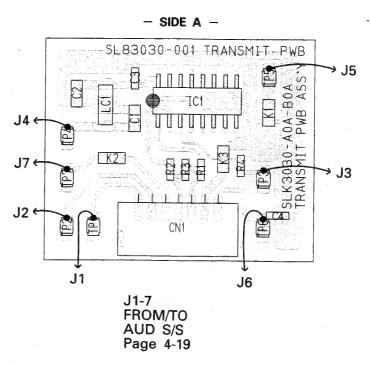
4-28 4-28

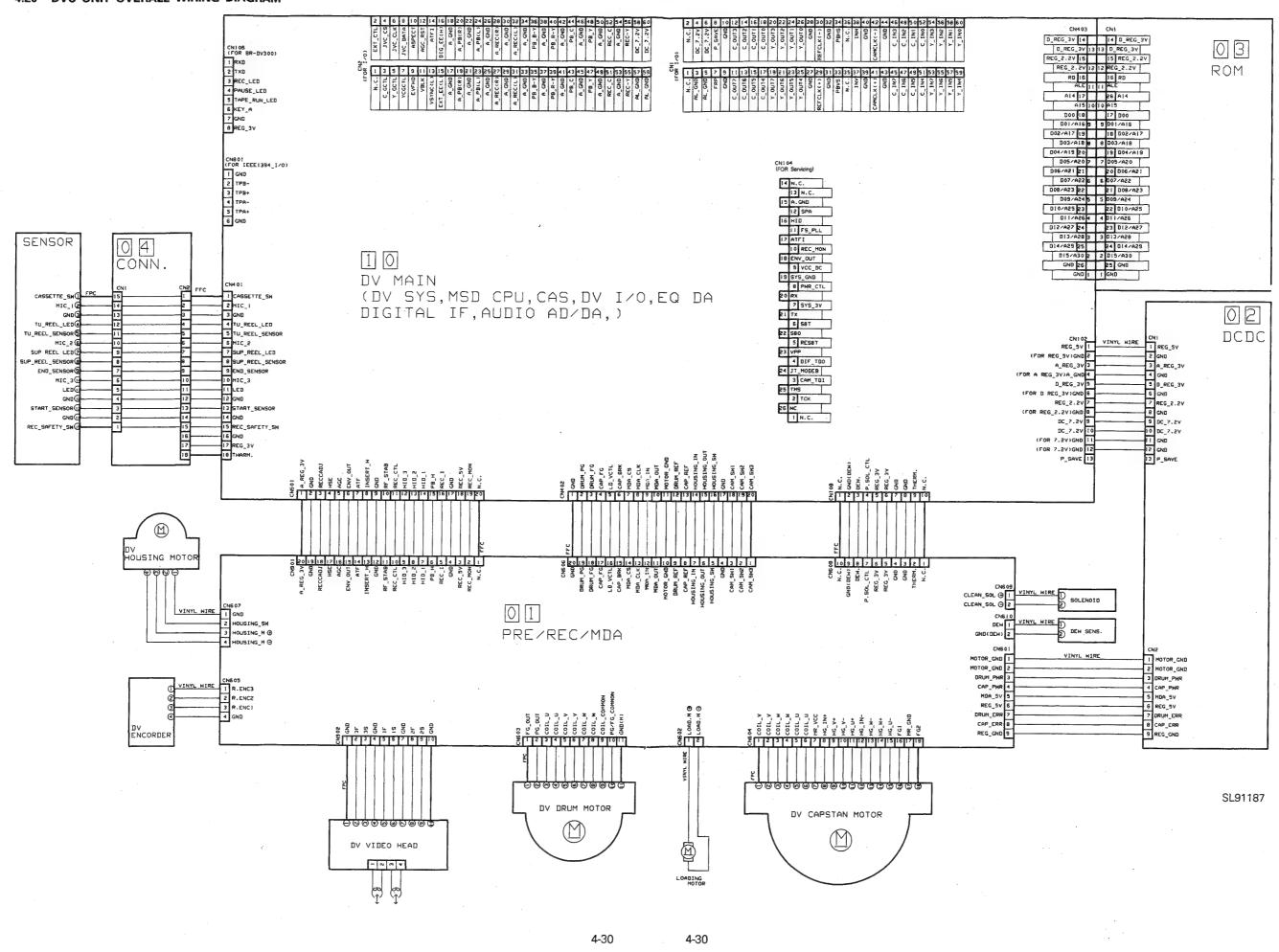


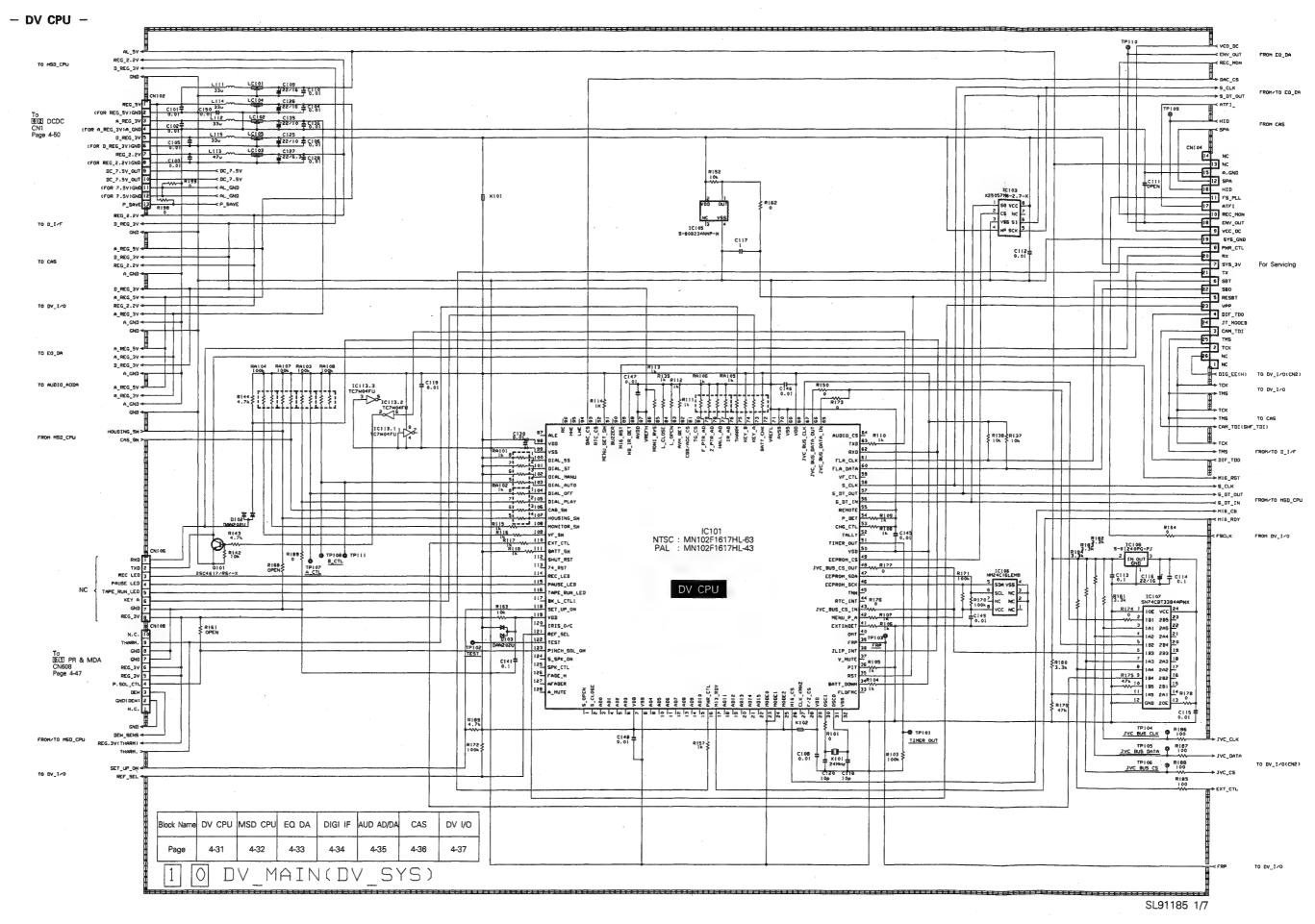


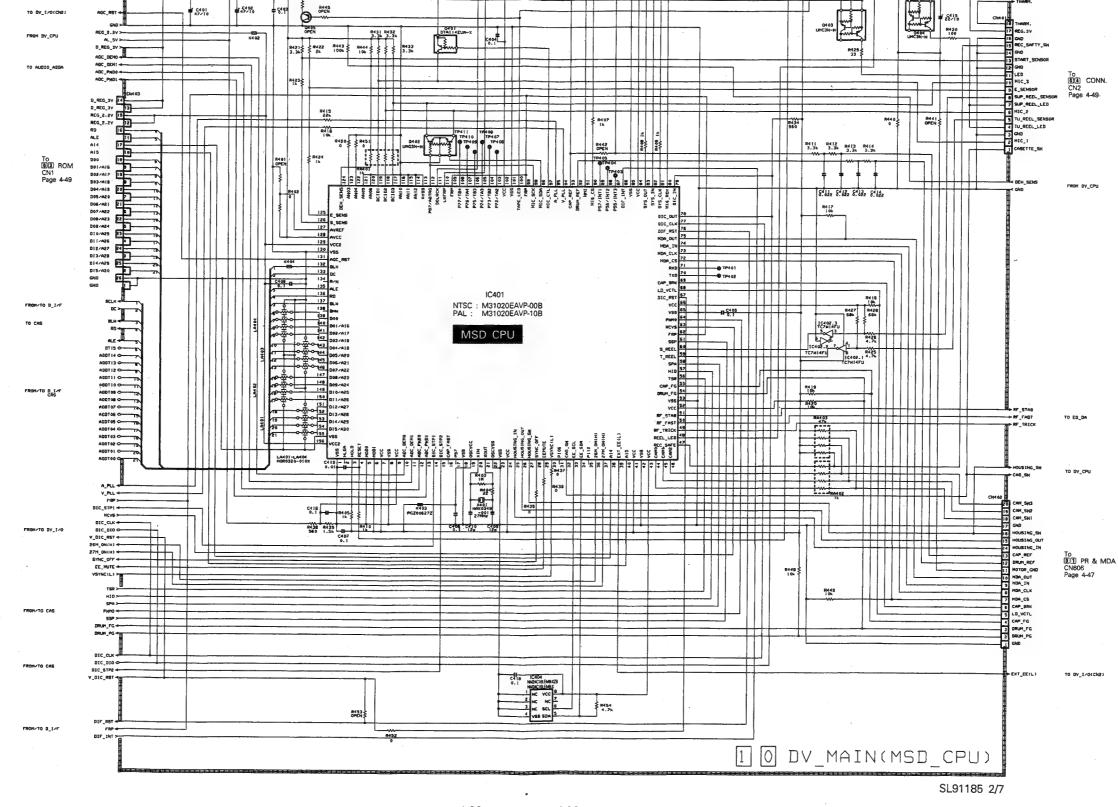


· TRANSMIT

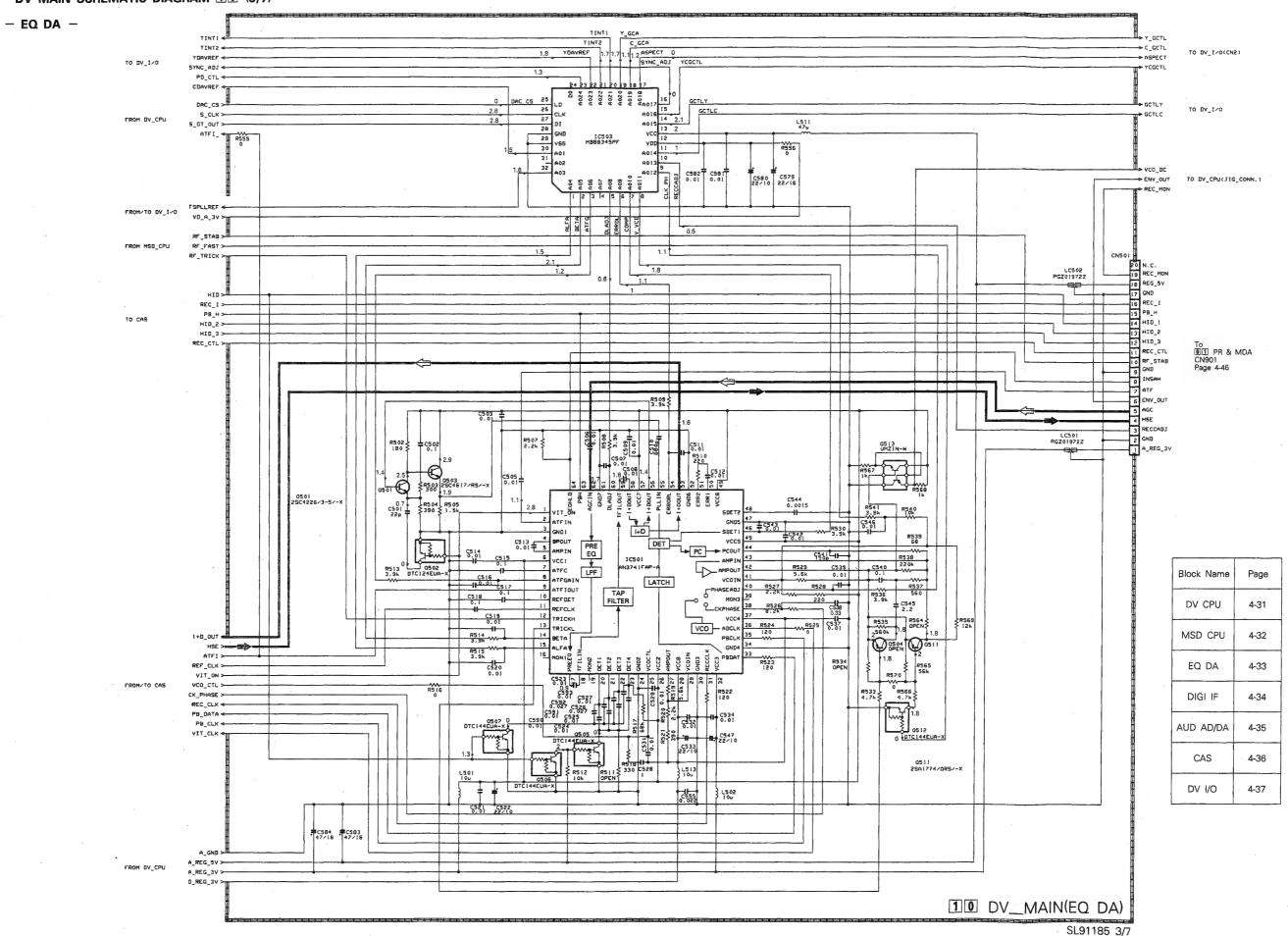


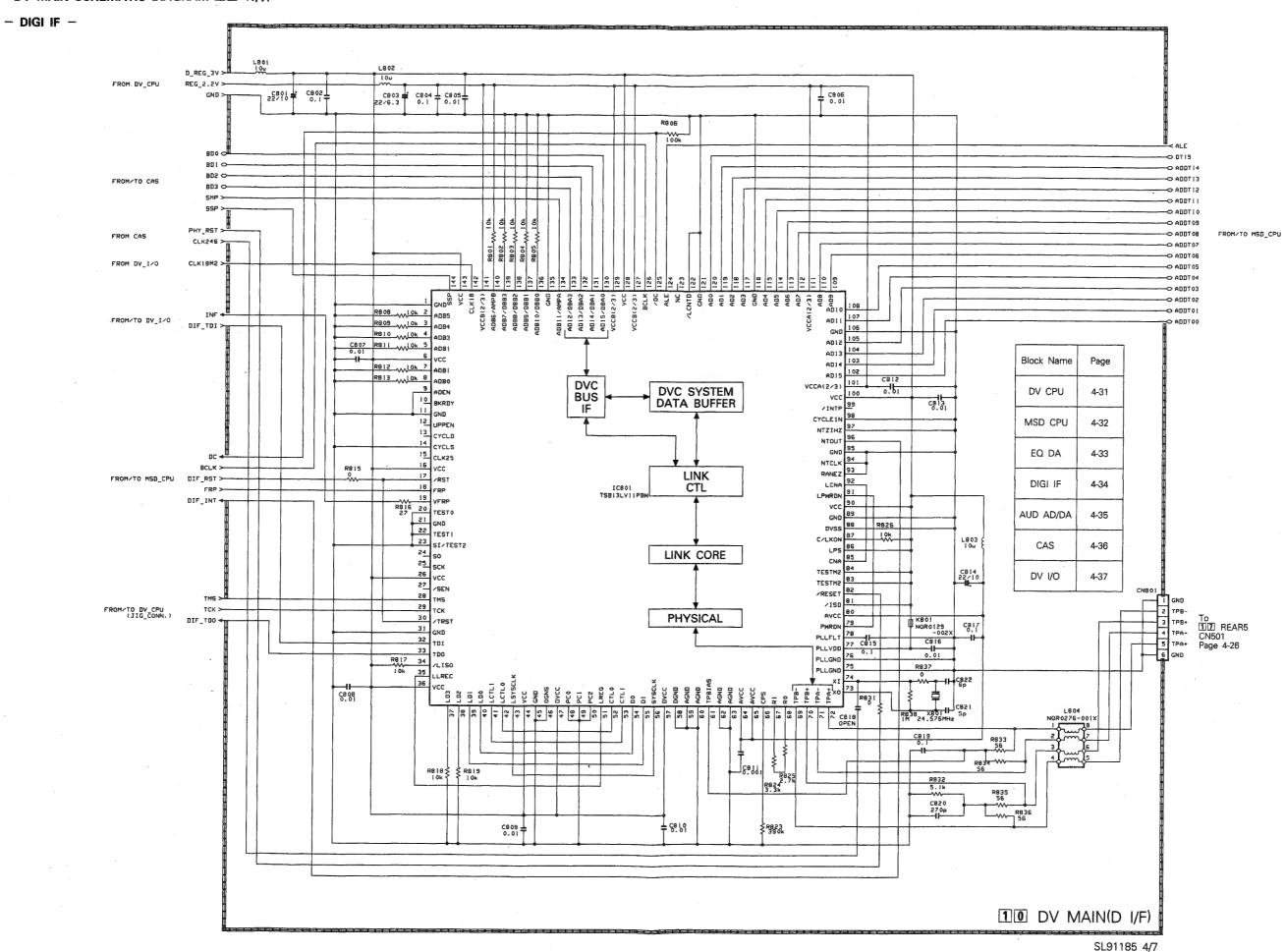




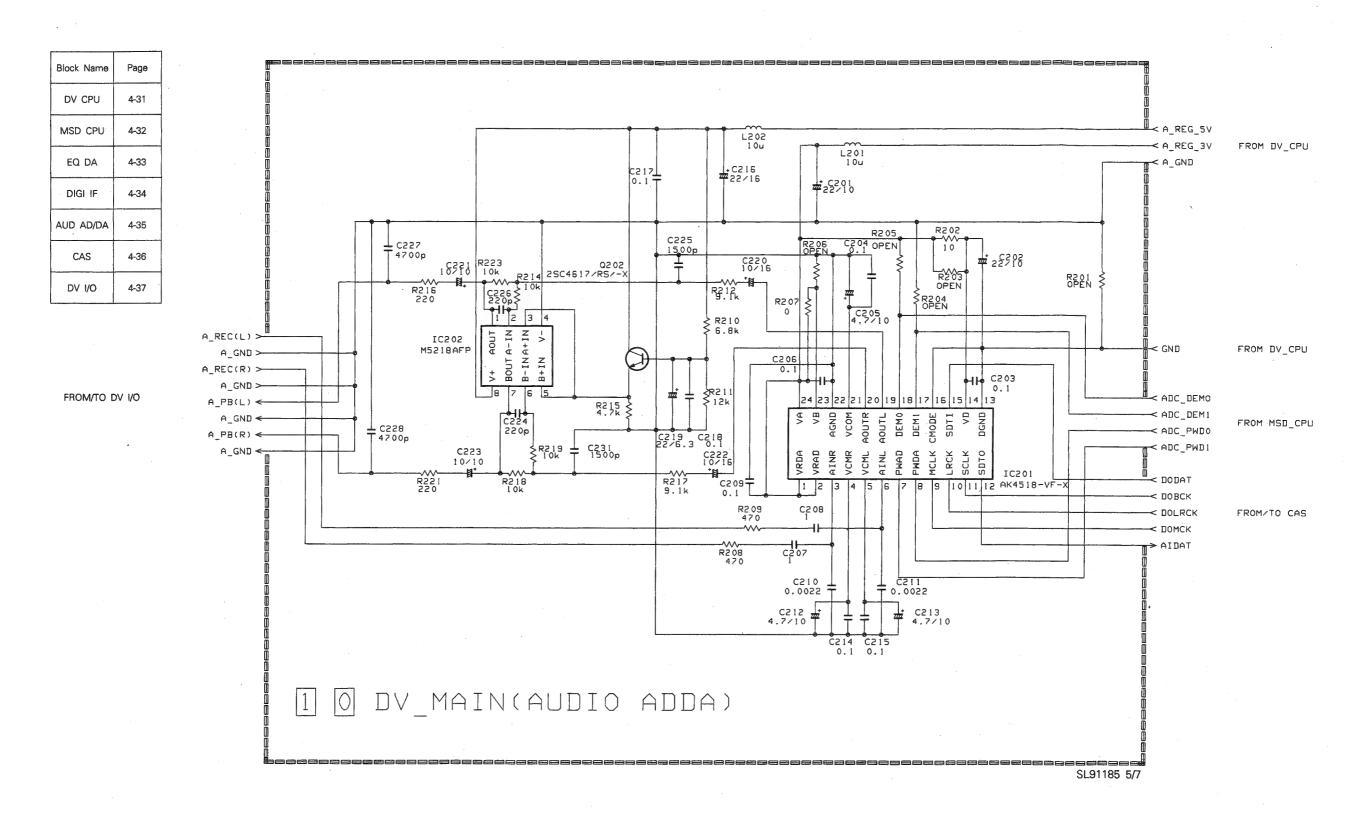


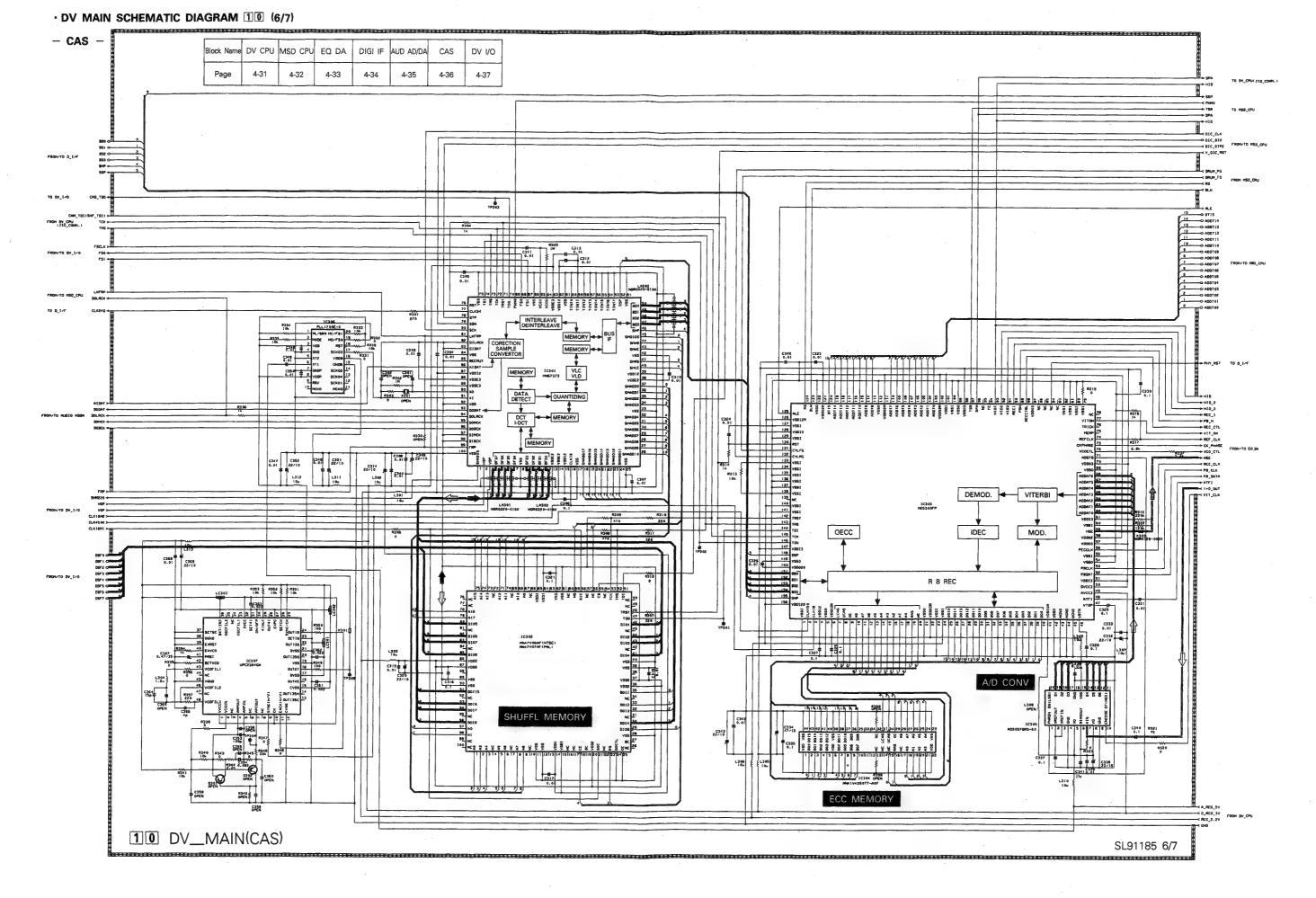
4-32 4-32

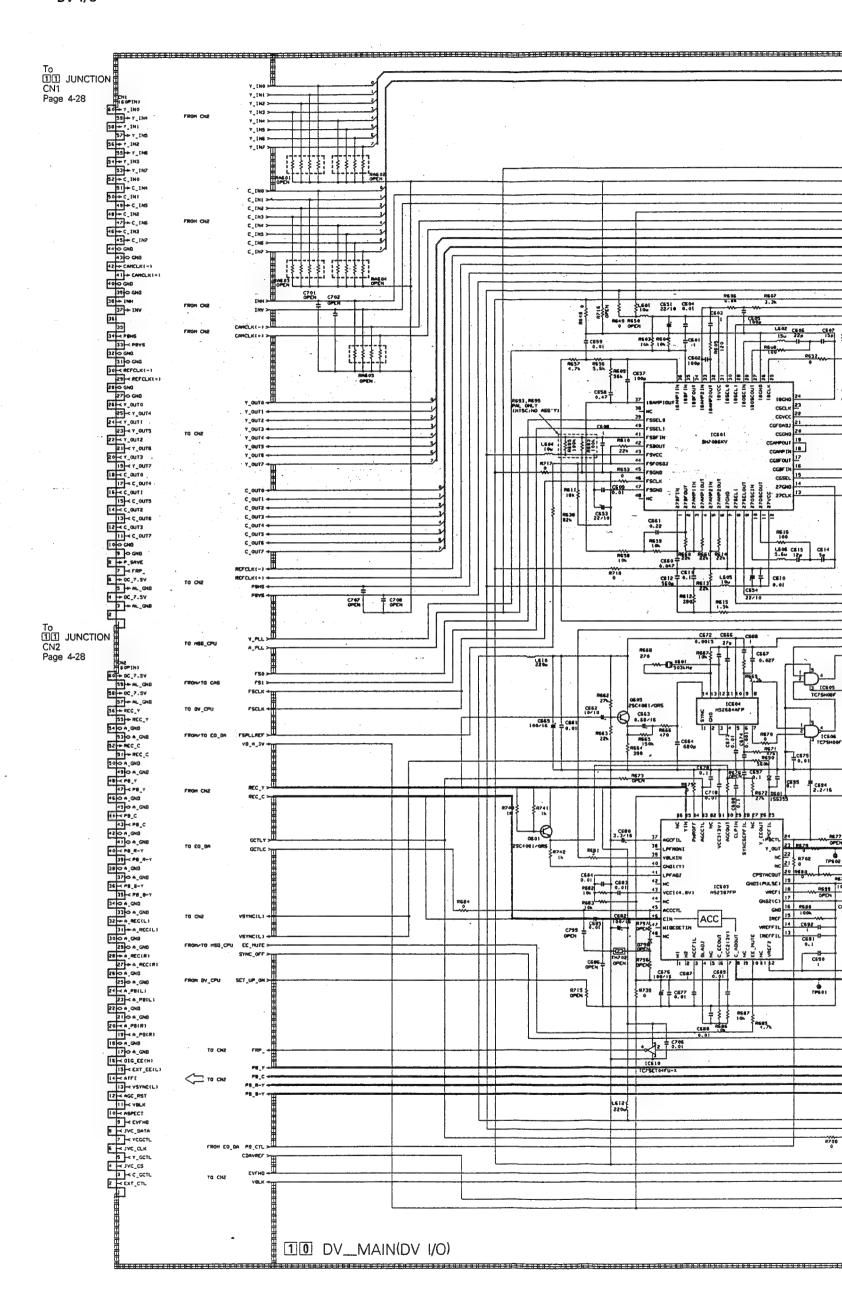


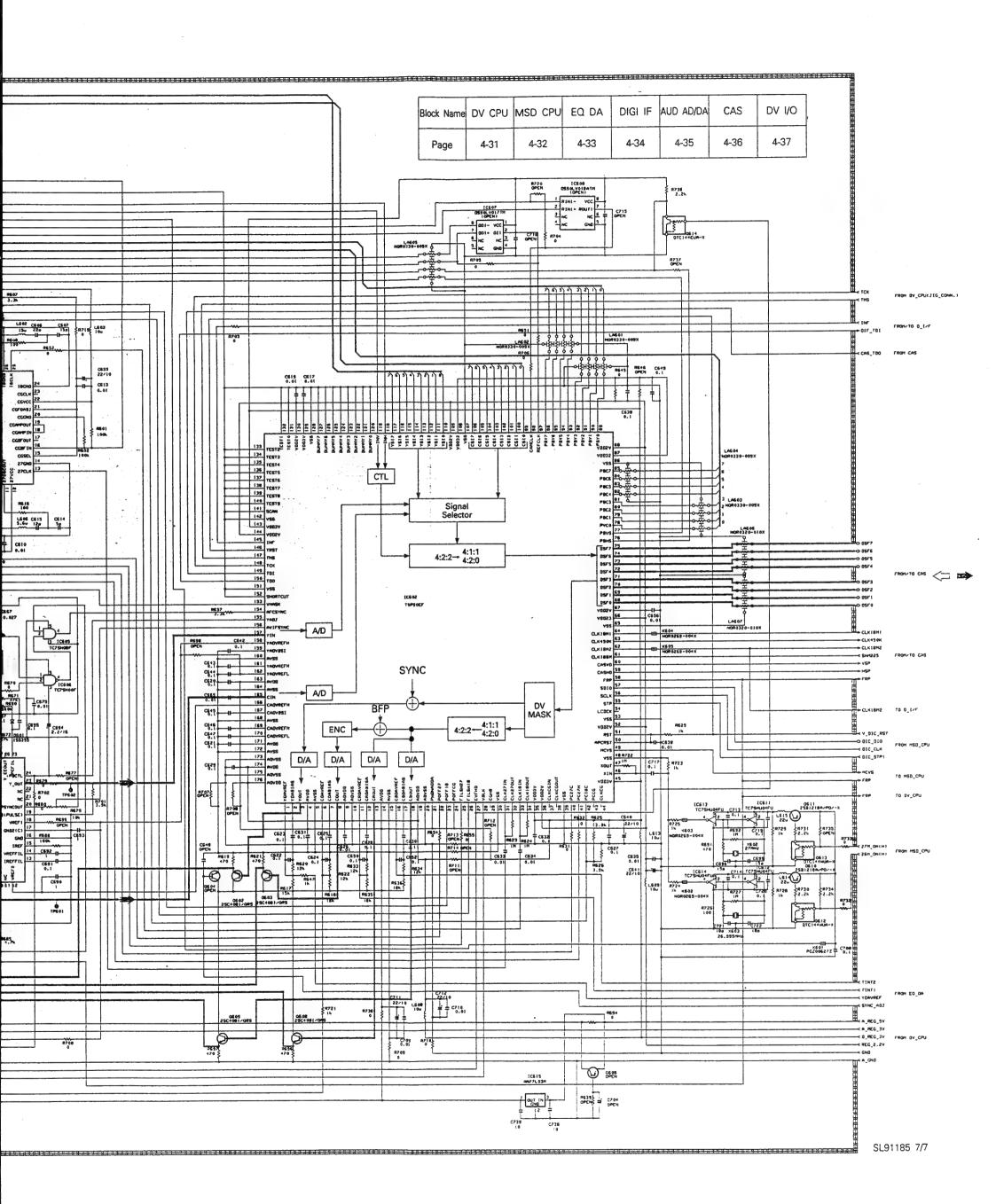


- AUD AD/DA -





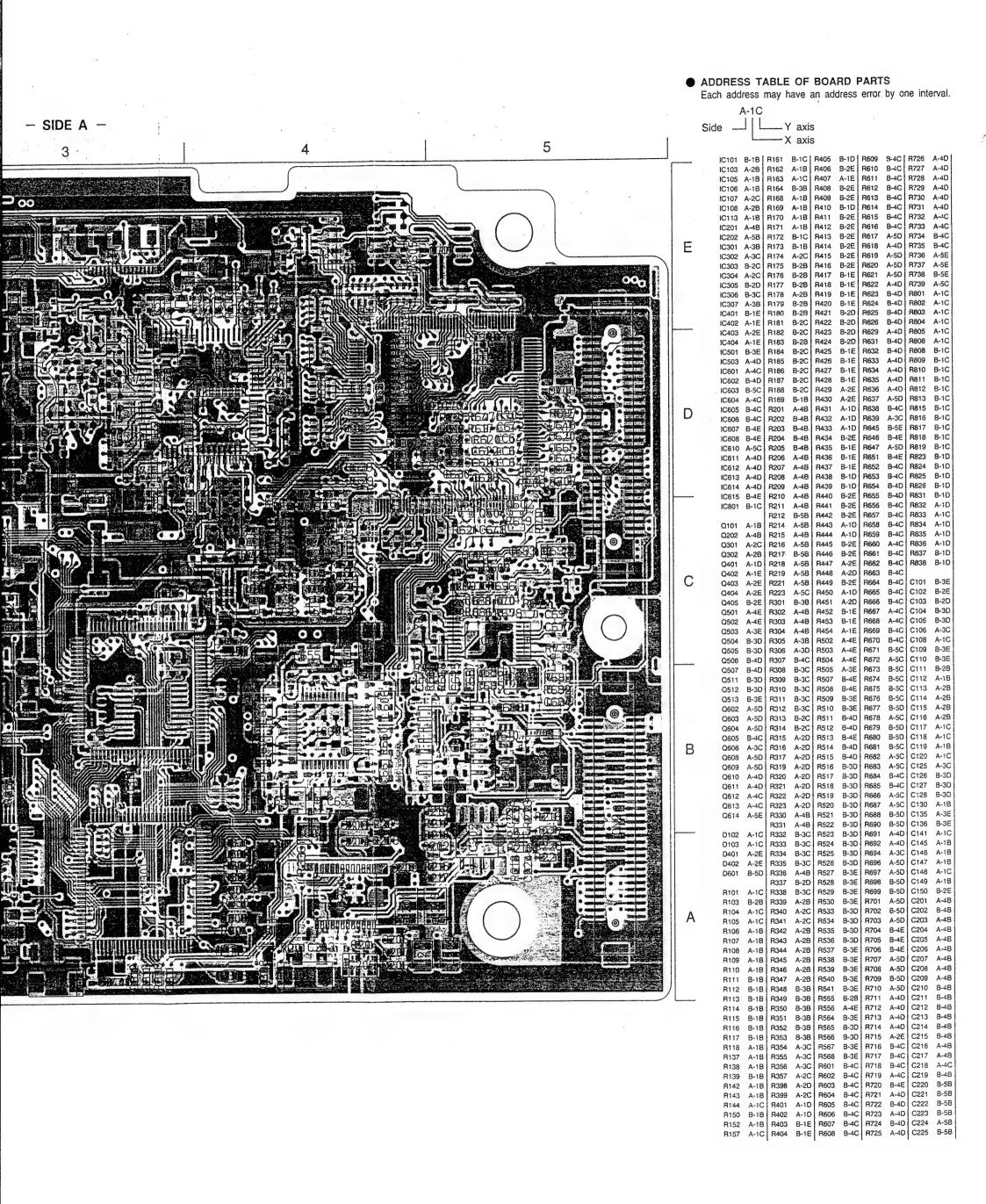


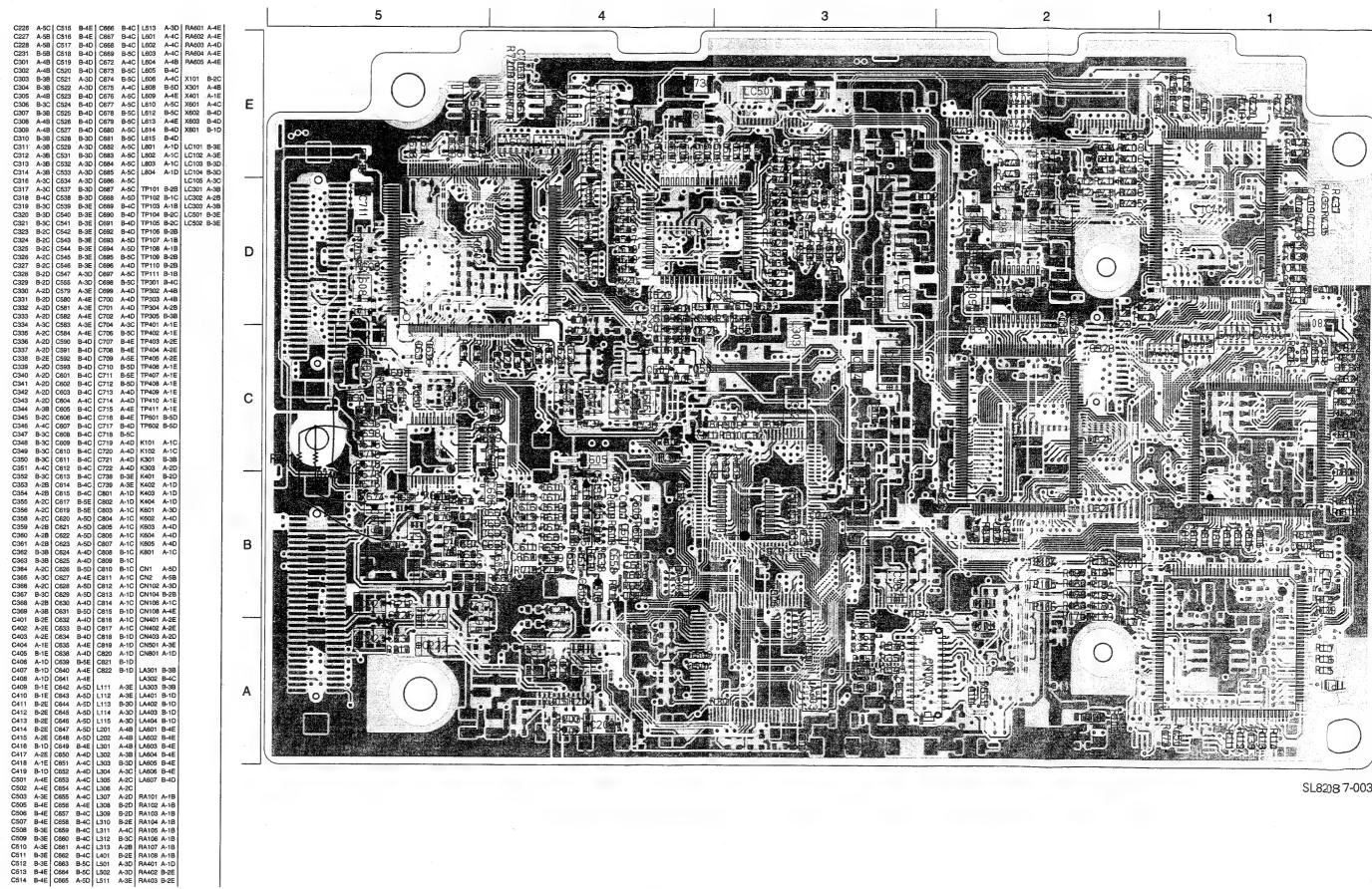


4.22 DV MAIN CIRCUIT BOARD

4.22.1 FOR SERIAL UP TO No.XXXX 0969(U MODEL), XXXX 0984(E MODEL)

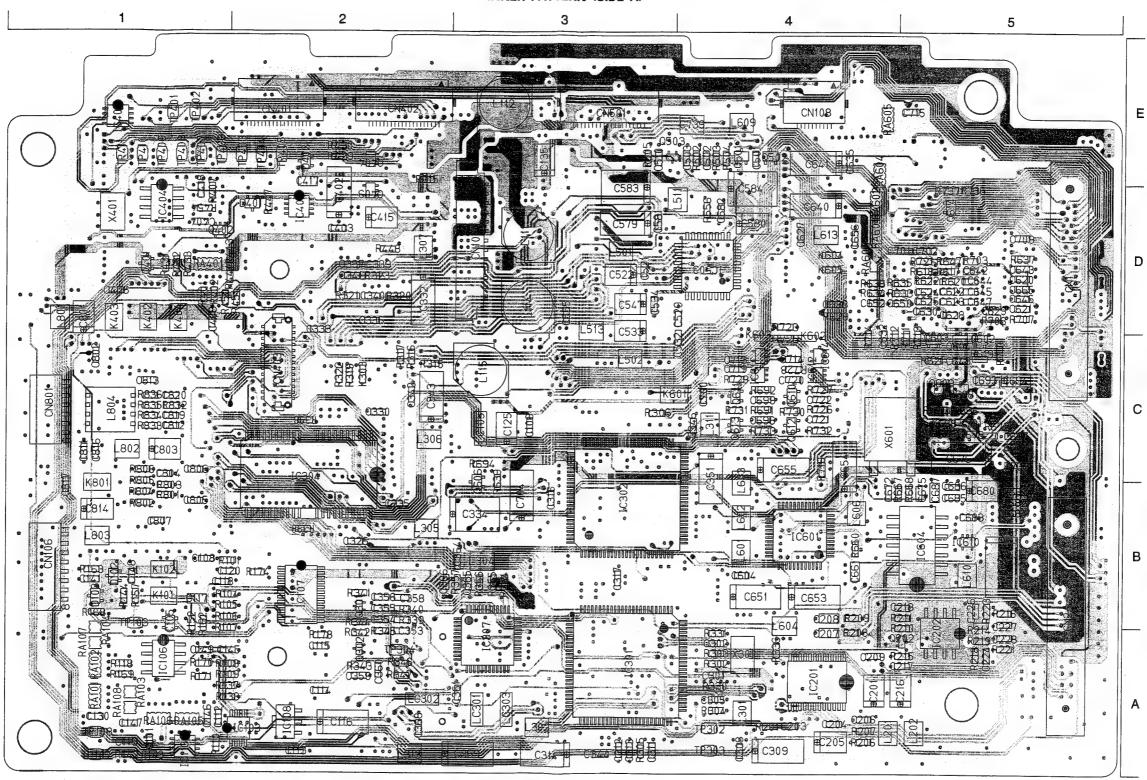
- SIDE A

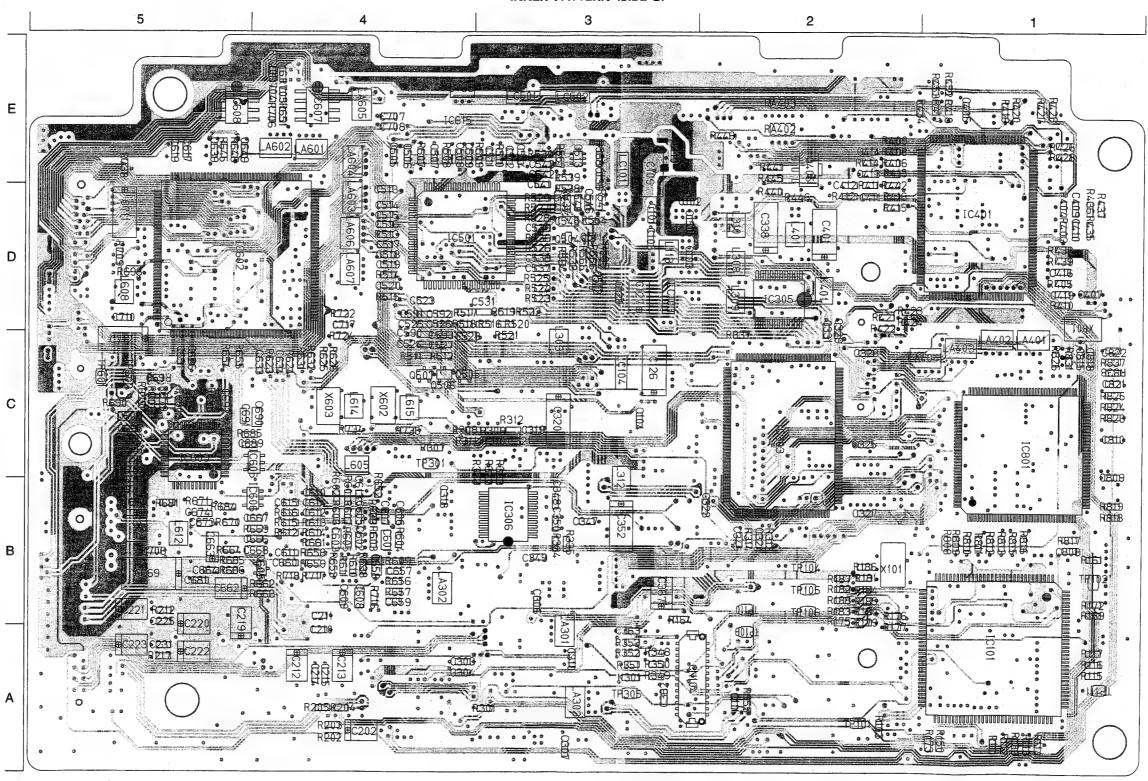




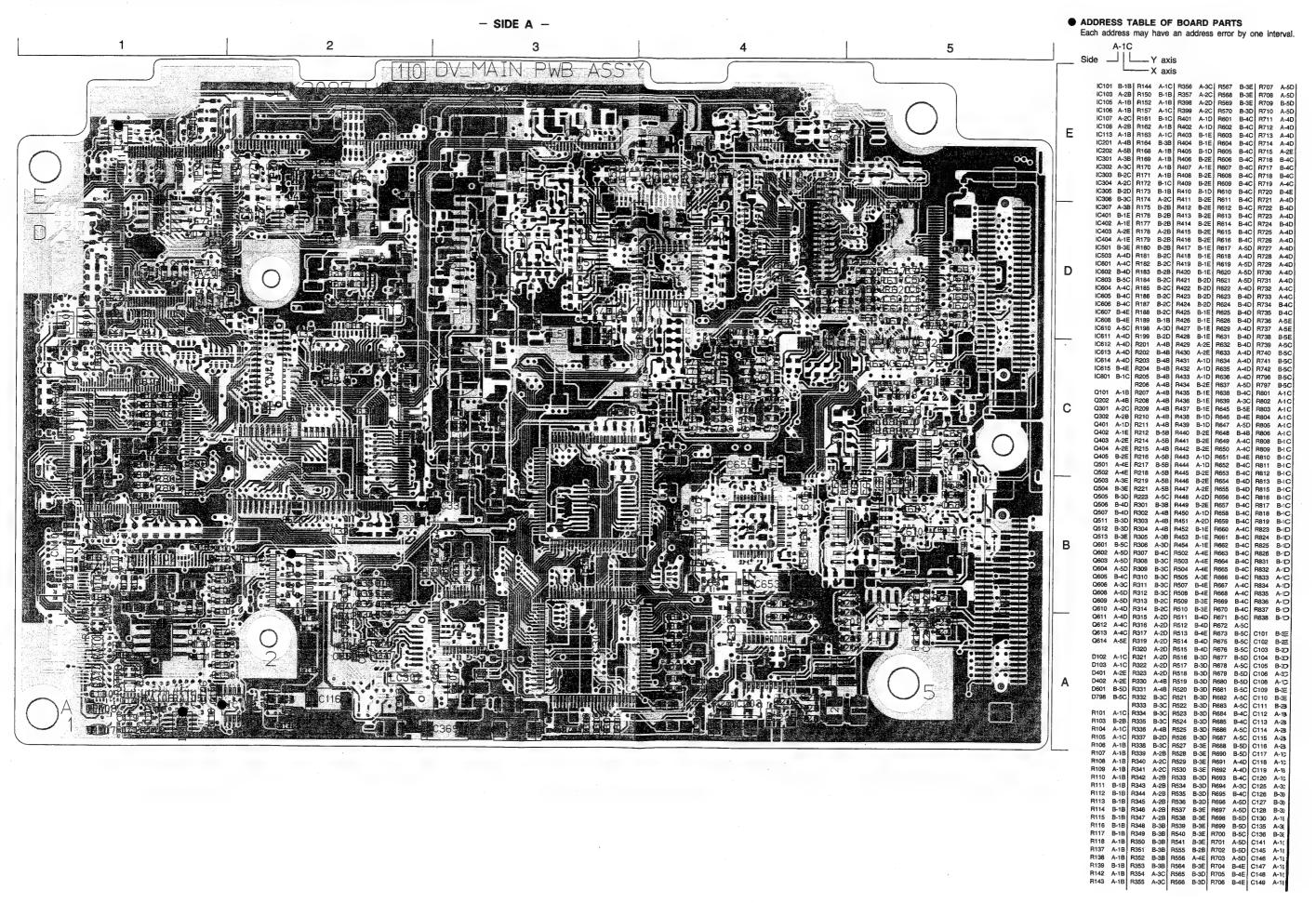
SL82087-003

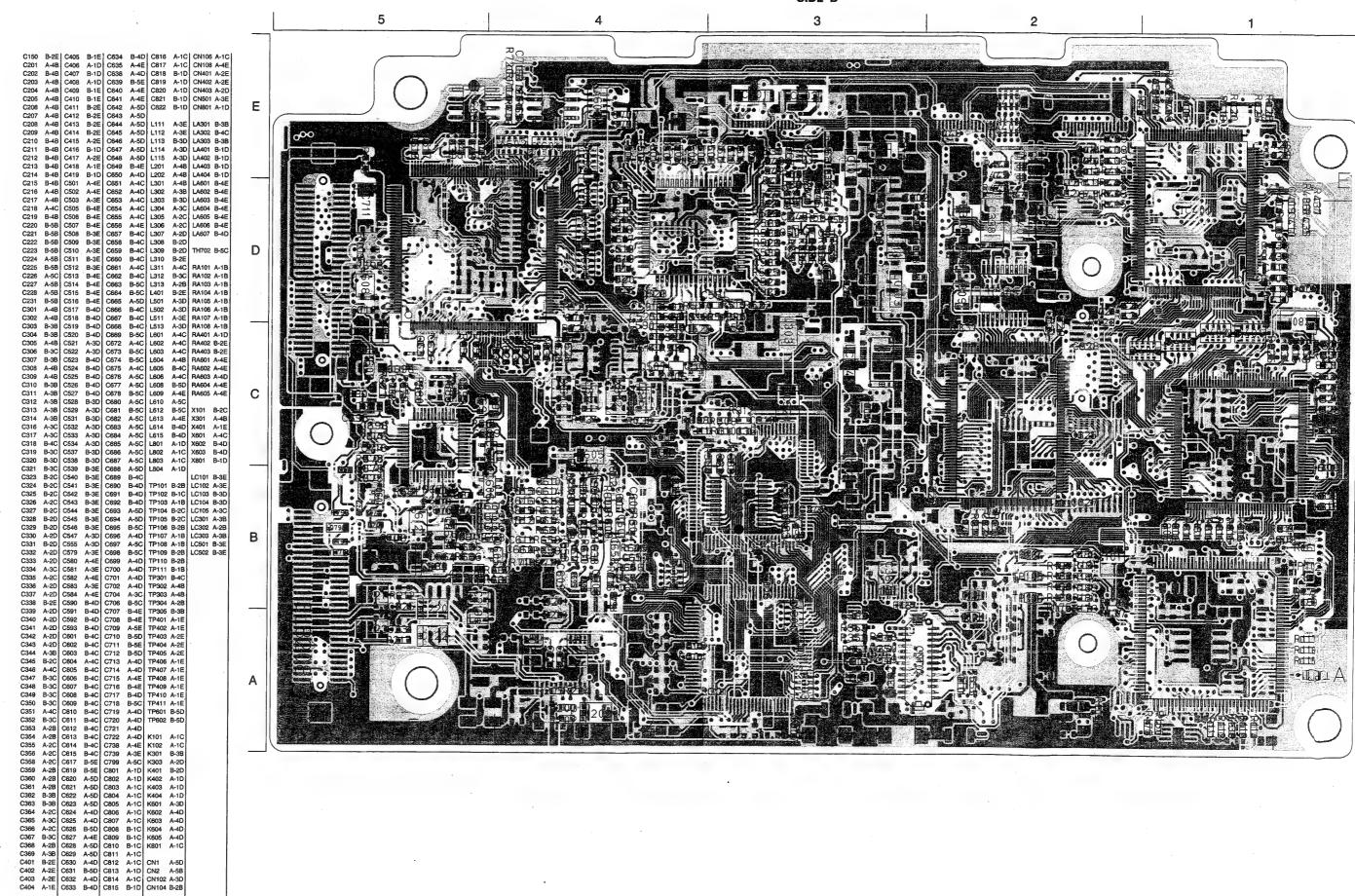


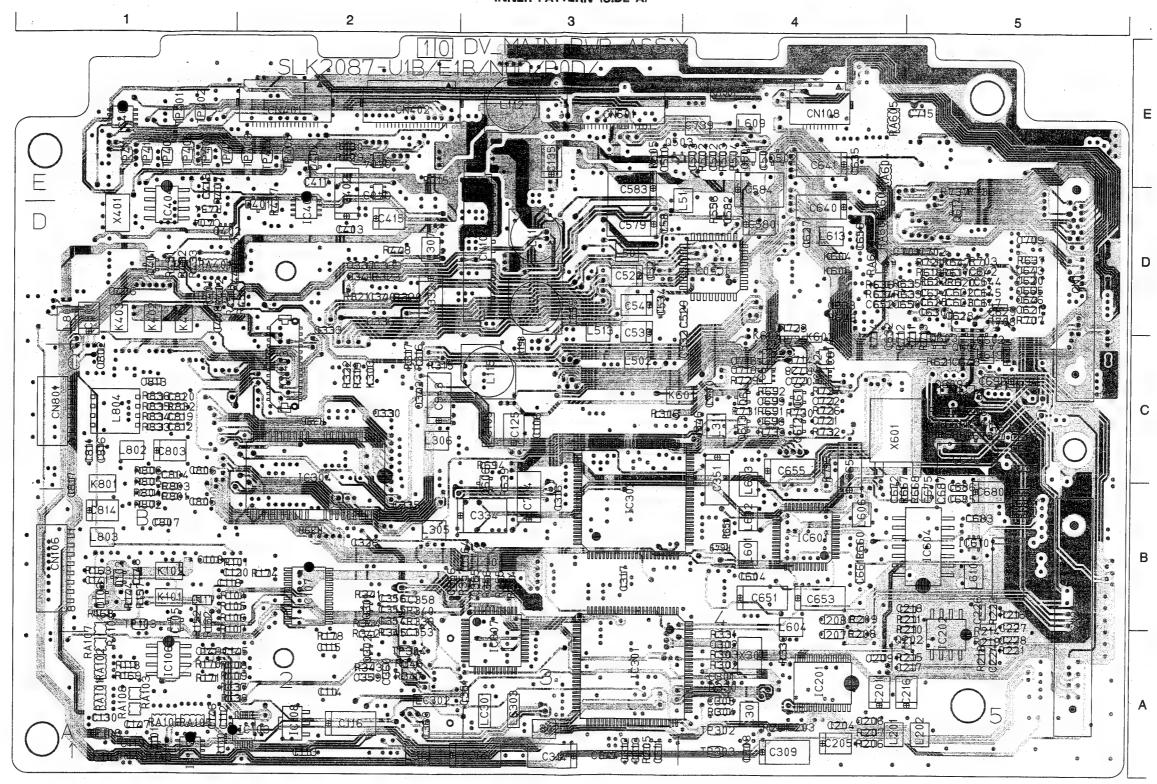


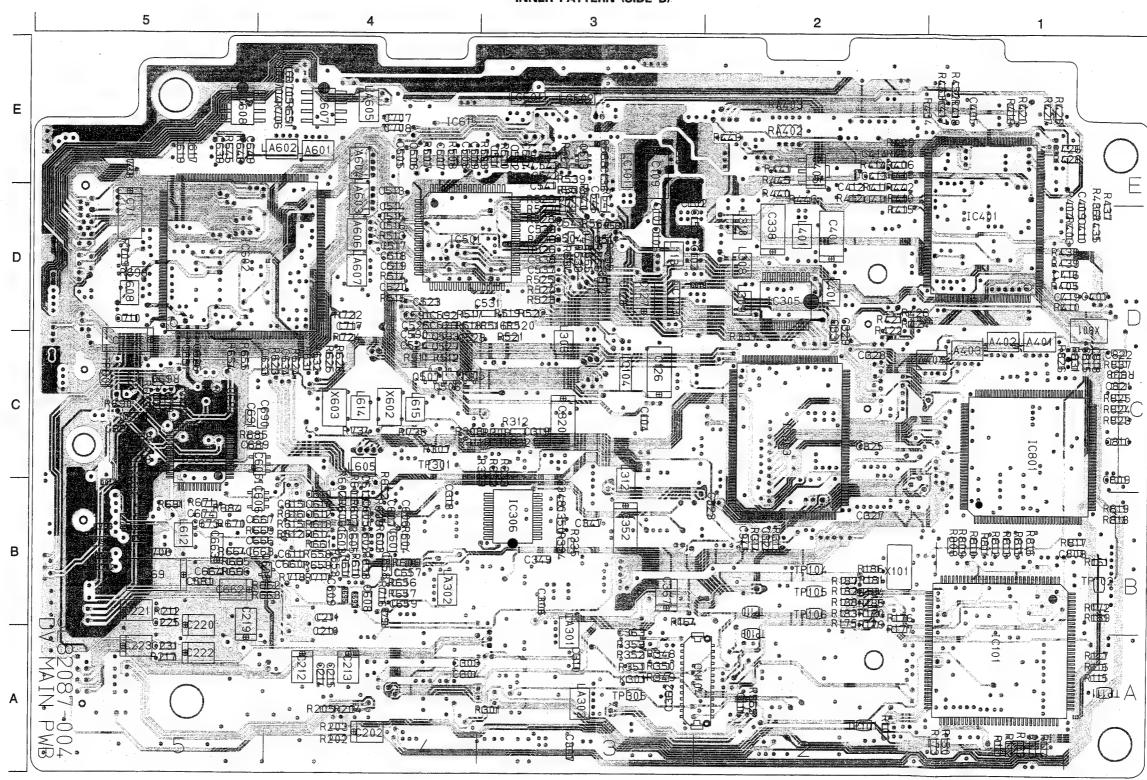


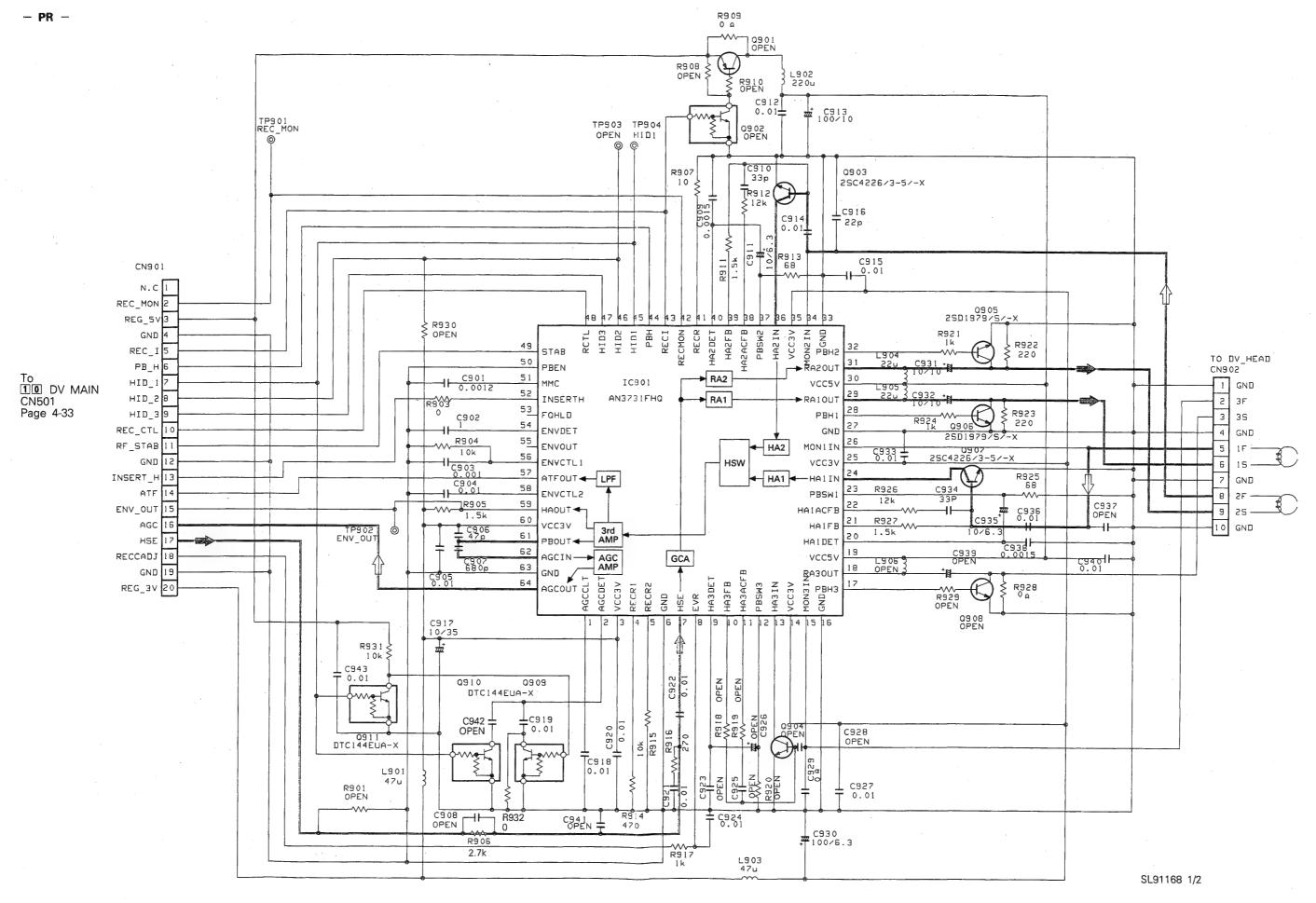
SL82087-003

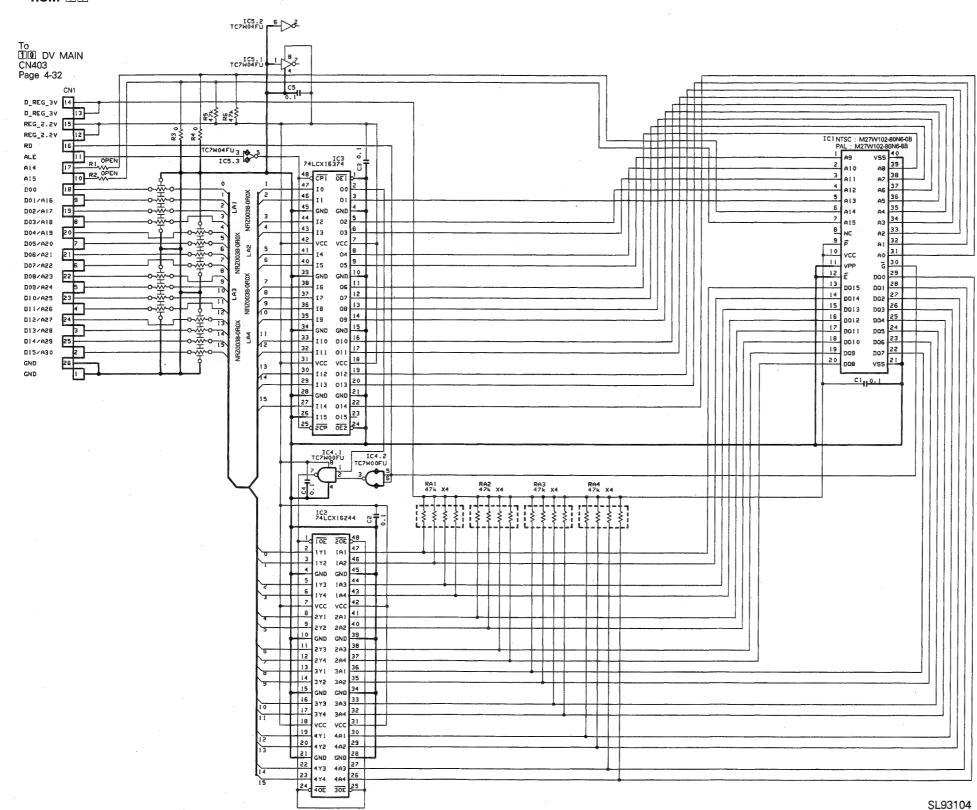




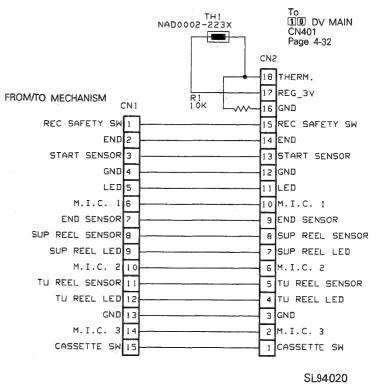


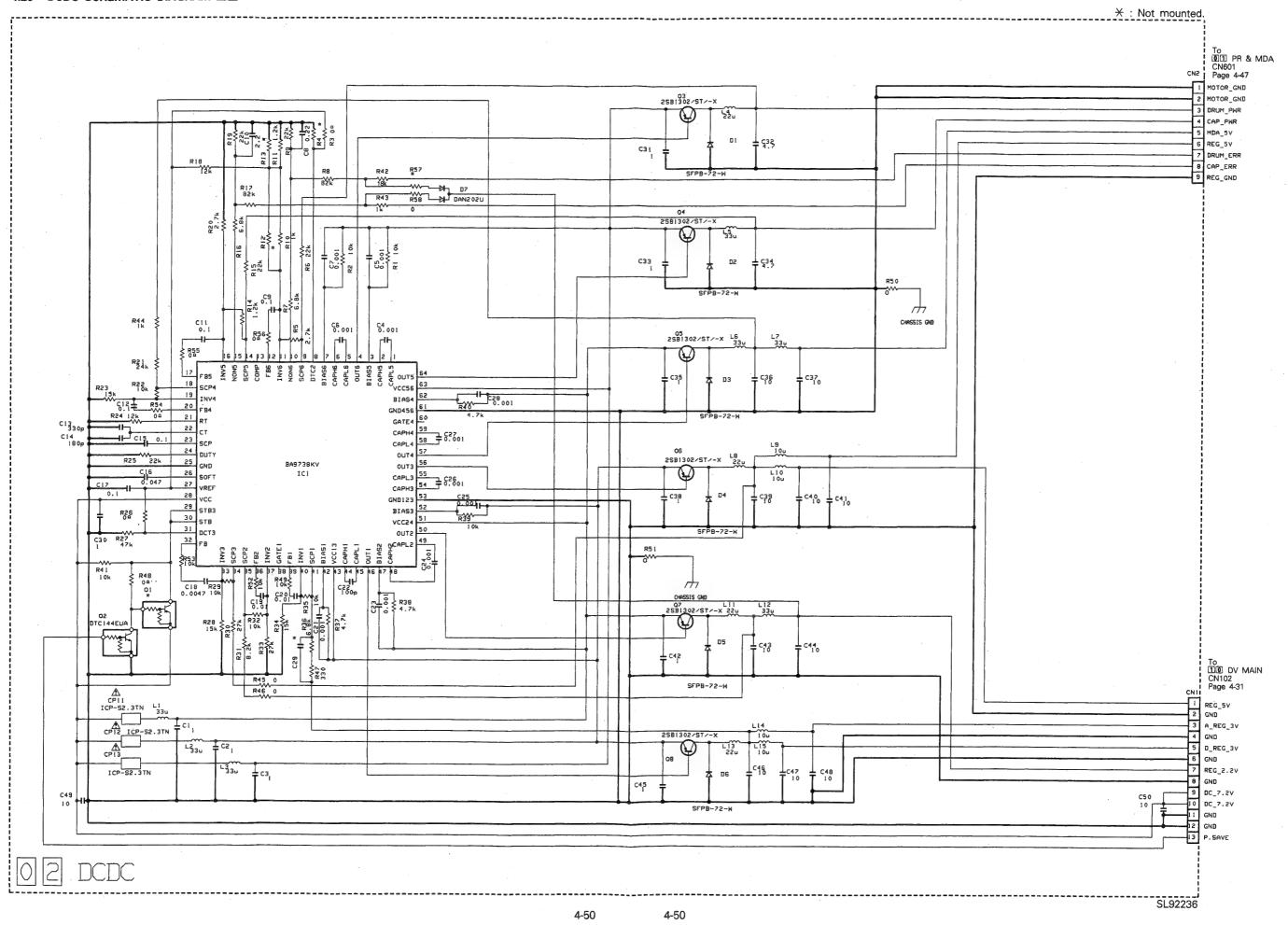




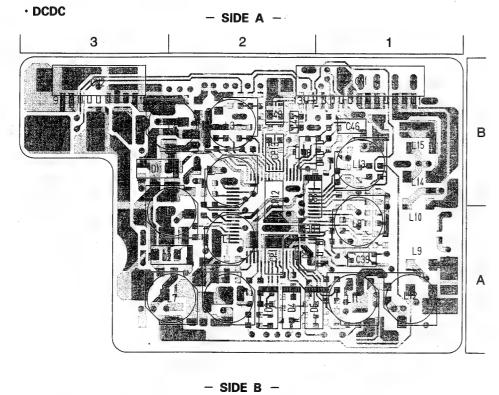


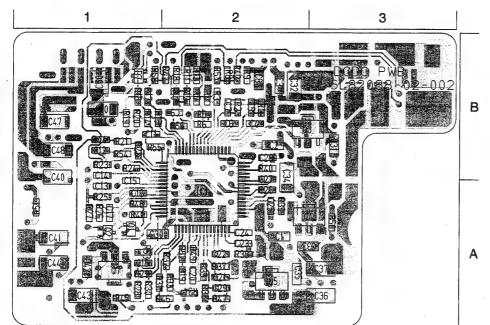
· CONN. 04





4.27 DCDC, ROM, CONN. CIRCUIT BOARD



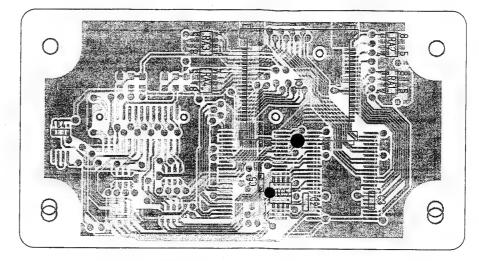


ADDRESS TABLE OF BOARD PARTS Each address may have an address error by one interval

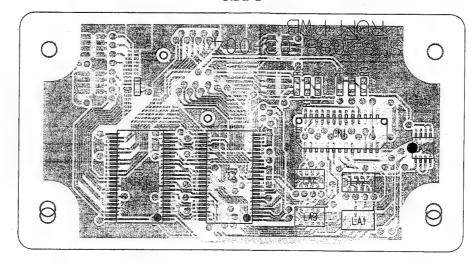
IC1	B-2A	R36	B-2A	C31	B-3B	
		R37	B-2A	C32	B-3B	1
Q1	B-2A	R38	B-3A	C33	B-3A	1
Q2	B-1A	R39	B-3A	C34	B-3B	١
Q3	B-3B	R40	B-3B	C35	B-3A	ı
Q4	B-3A	R41	B-2A	C36	B-3A	1
Q5	B-3A	R42	B-3B	C37	B-3A	1
Q6	A-2A	R43	B-2B	C38	A-2A	ı
Q7		1 .				ı
	B-1A	R44	B-1B	C39	A-1A	1
Q8	A-2B	R45	B-1A	C40	B-1B	1
		R46	B-2A	C41	B-1A	1
D1	A-3B	R47	B-2A	C42	B-1A	١
D2	A-3A	R48	B-2A	C43	B-1A	ı
D3	A-2A	R49	B-2A	C44	B-1A	ı
D4	A-2A	R50	B-3A	C45	A-2B	1
D5	A-2A	R51	B-1A	C46	A-1B	1
D6	A-2B	R52	B-2A	C47	B-1B	I
D7	B-2B	R53	B-2A	C48	B-1B	l
		R54	B-1B	C49	A-2B	I
R1	B-3B	R55	B-2B	C50	B-1B	ı
R2	B-3B	R56	B-2B			ı
R3	B-2B	R57	B-2B	L1	A-3A	ı
R4	B-2B	R58	B-2B	L2	A-3B	ı
R5	B-2B	1.00		L3	A-3B	l
R6	B-2B	C1	B-3A	L4	A-3B	l
R7	B-2B	C2	B-3B	L5	A-3A	Į
R8	B-2B	C3	B-3B	L6	A-SA A-SA	ı
R9	B-3B	C4	B-3B	L7		ı
					A-3A	ļ
R10	B-2B	C5	B-3B	L8	A-1A	I
R11	B-2B	C6	B-2B	L9	A-1A	ŀ
R12	B-2B	C7	B-2B	L10	A-1A	ı
R13	B-2B	C8	B-3B	L11	A-1A	ı
R14	B-2B	C9	B-2B	L12	A-1A	l
R15	B-2B	C10	B-1B	L13	A-1B	ı
'R16	B-2B	C11	B-2B	L14	A-1B	۱
R17	B-2B	C12	B-1B	L15	A-1B	l
R18	B-2B	C13	B-1A			l
R19	B-1B	C14	B-1B	CP11	A-2A	l
R20	B-2B	C15	B-2B	CP12	A-2B	l
R21	B-1B	C16	B-2A	CP13	A-2B	ı
R22	B-2B	C17	B-1A			ŀ
R23	B-1B	C18	B-2A	CN1	A-1B	
R24	B-2B	C19	B-2A	CN2	A-4B	ı
R25	B-1A	C20	B-2A			l
R26	B-1A	C21	B-2A			l
R27	B-1A	C22	B-2A			
R28	B-2A	C23	B-3A			
R29	B-2A	C24	B-3A			1
- R30	B-2A	C25	B-3A			
R31	B-2A	C26	B-3A			1
R32	B-2A	C27	B-3B			l
R33	B-2A	C28	B-3B			
R34	B-2A	C29	B-2A			
R35	B-2A	C30	B-2A			
ಗರರ	D-ZA	U3U	D-2A			ı

· ROM

- SIDE A -

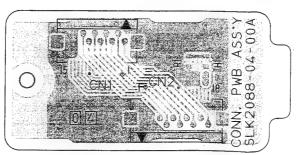


- SIDE B -

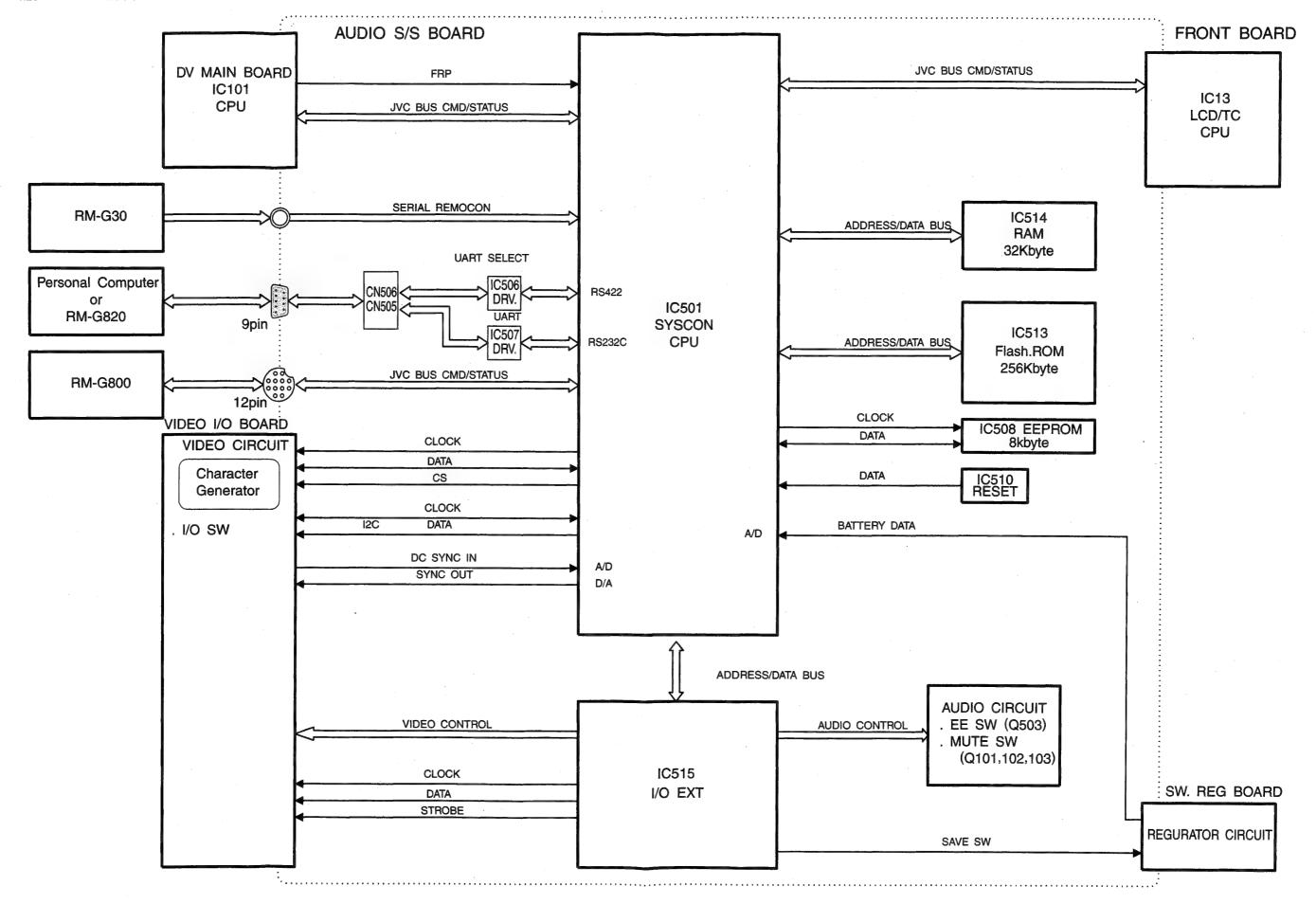


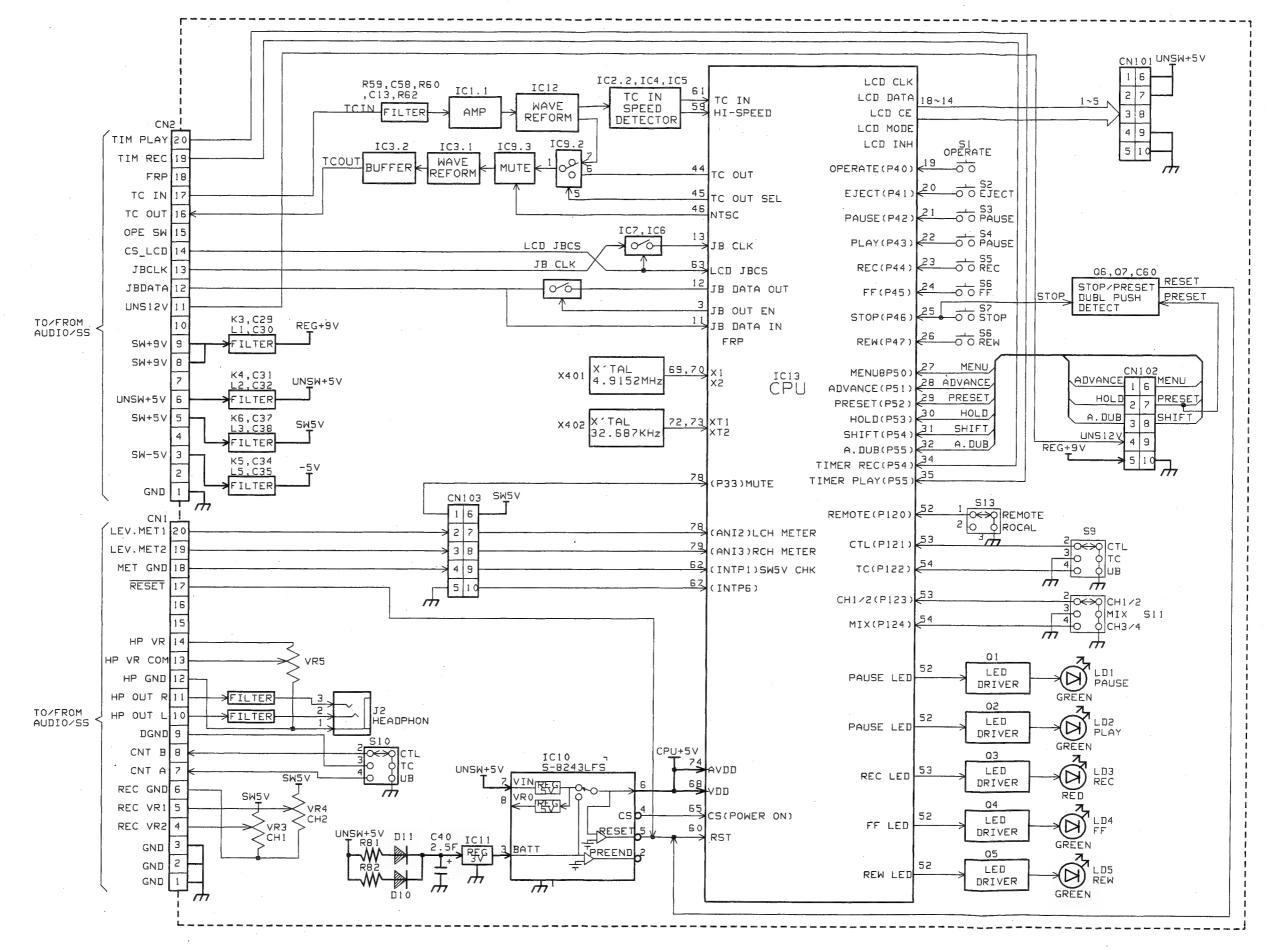
· CONN.

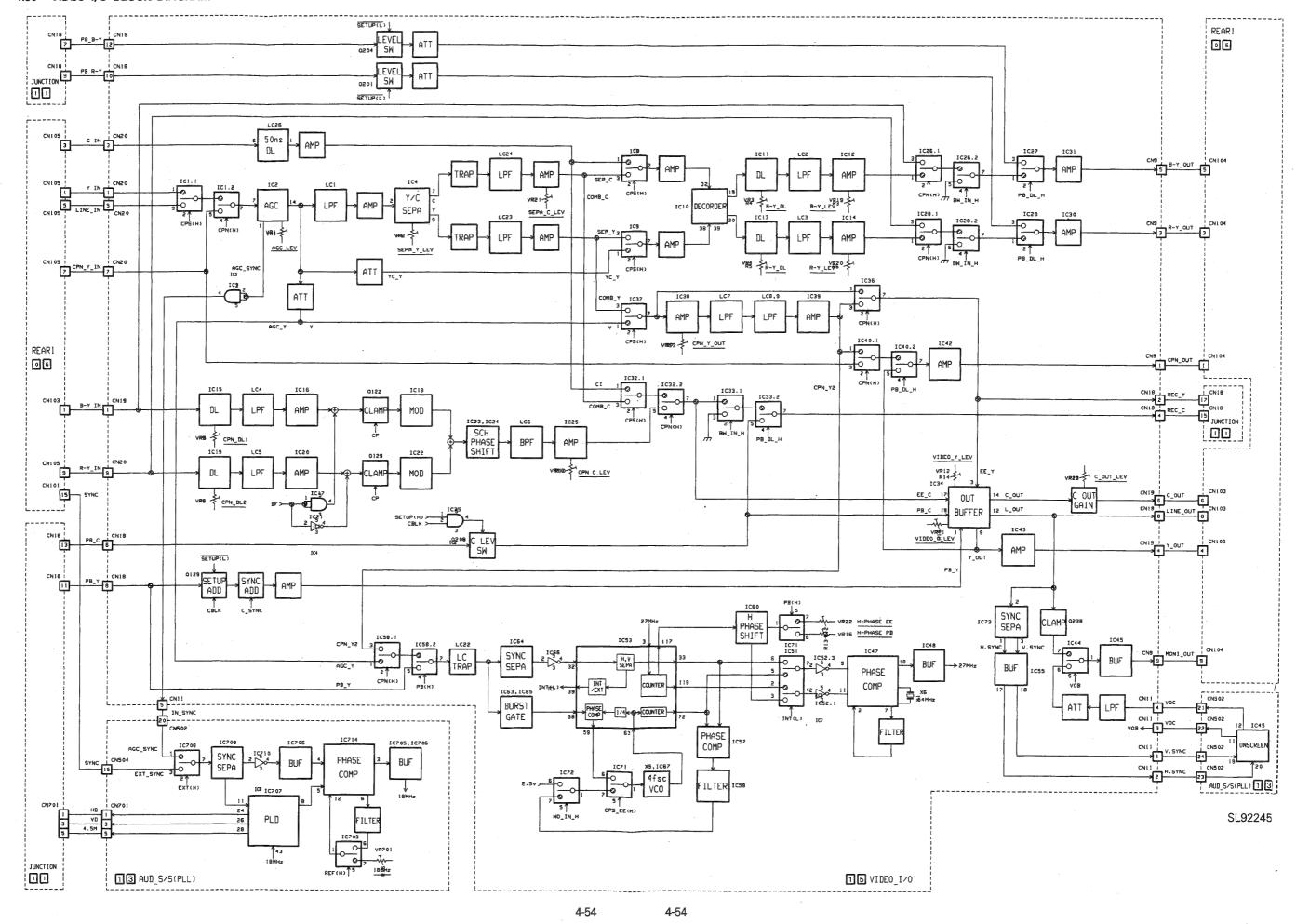
- SIDE A -

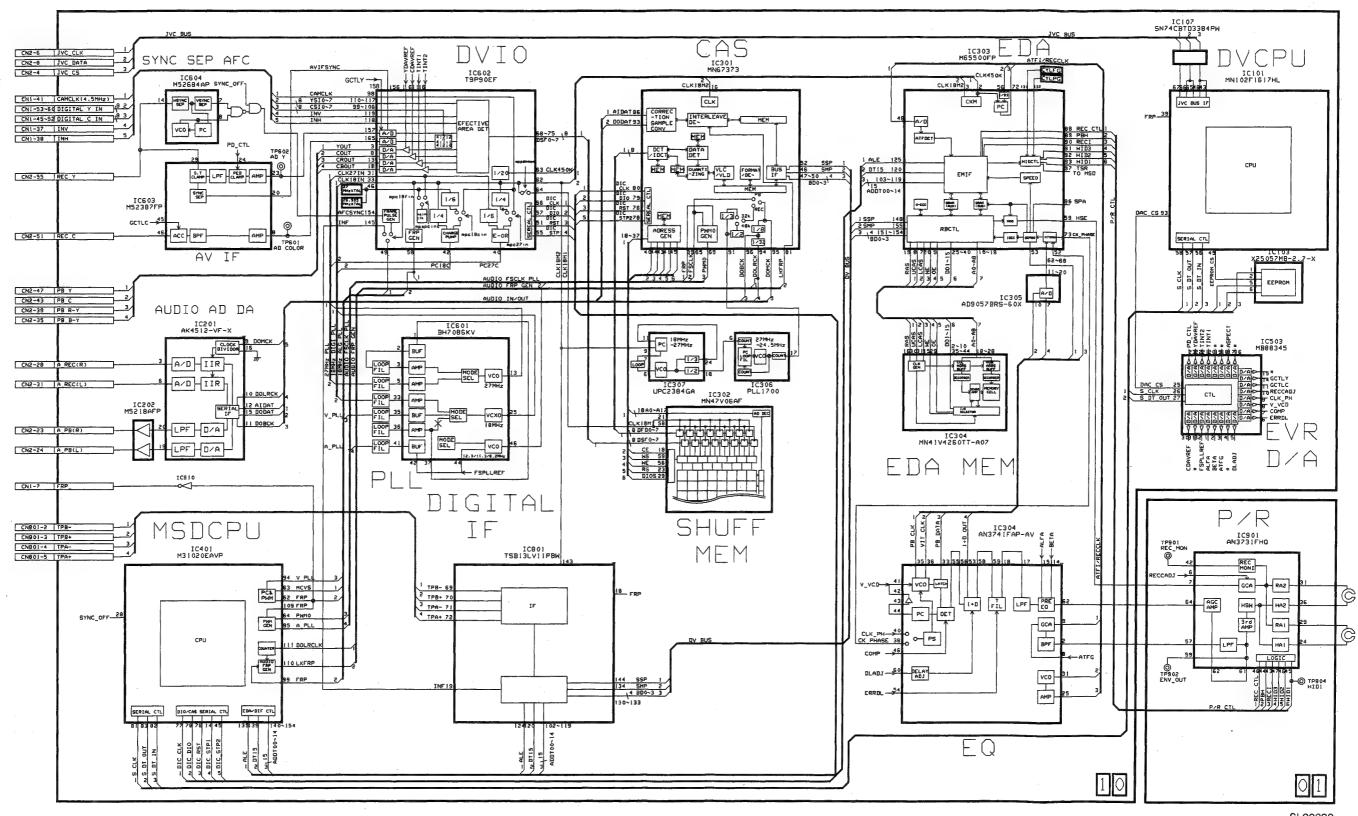


SL82088-04-001

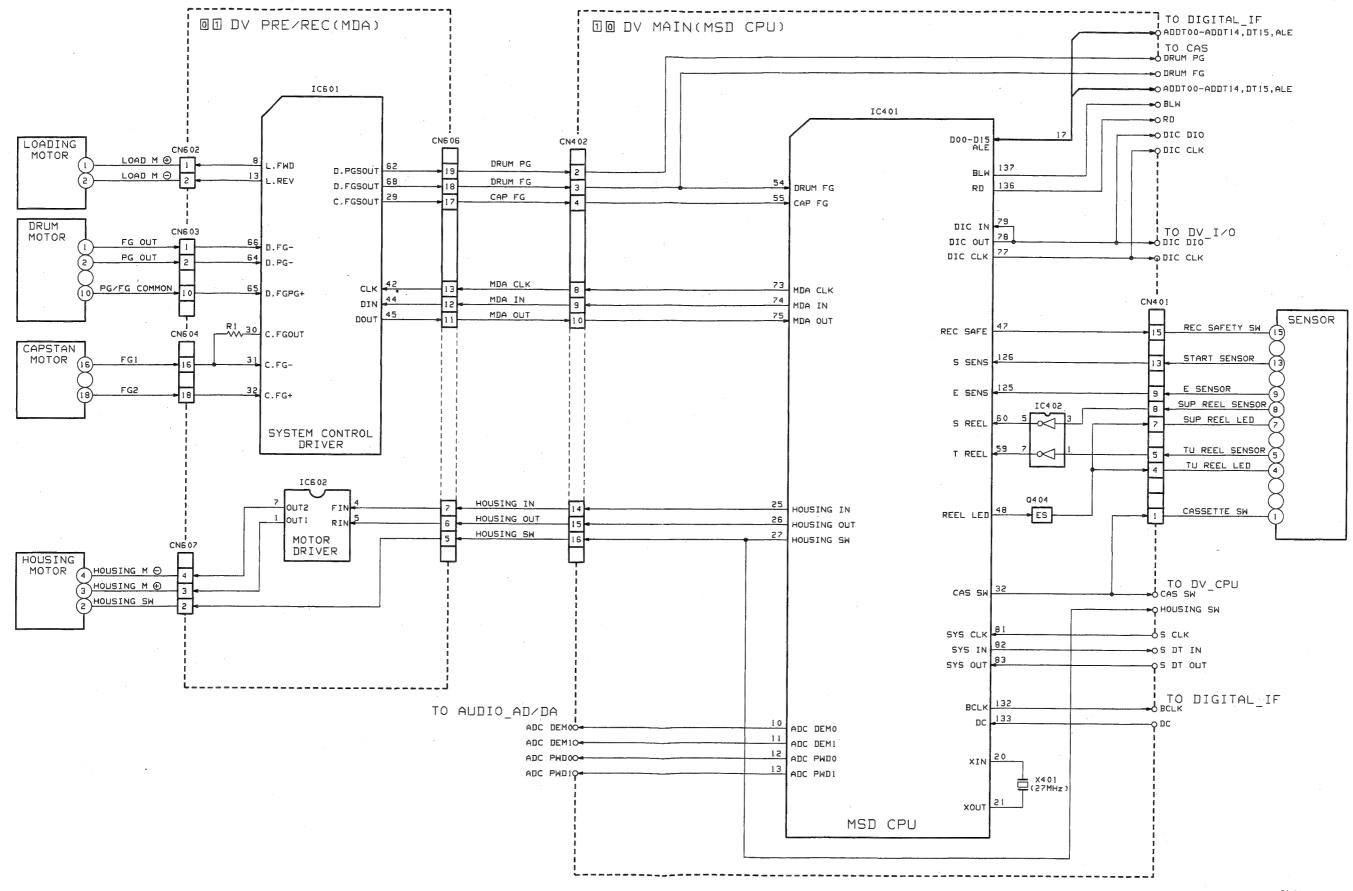




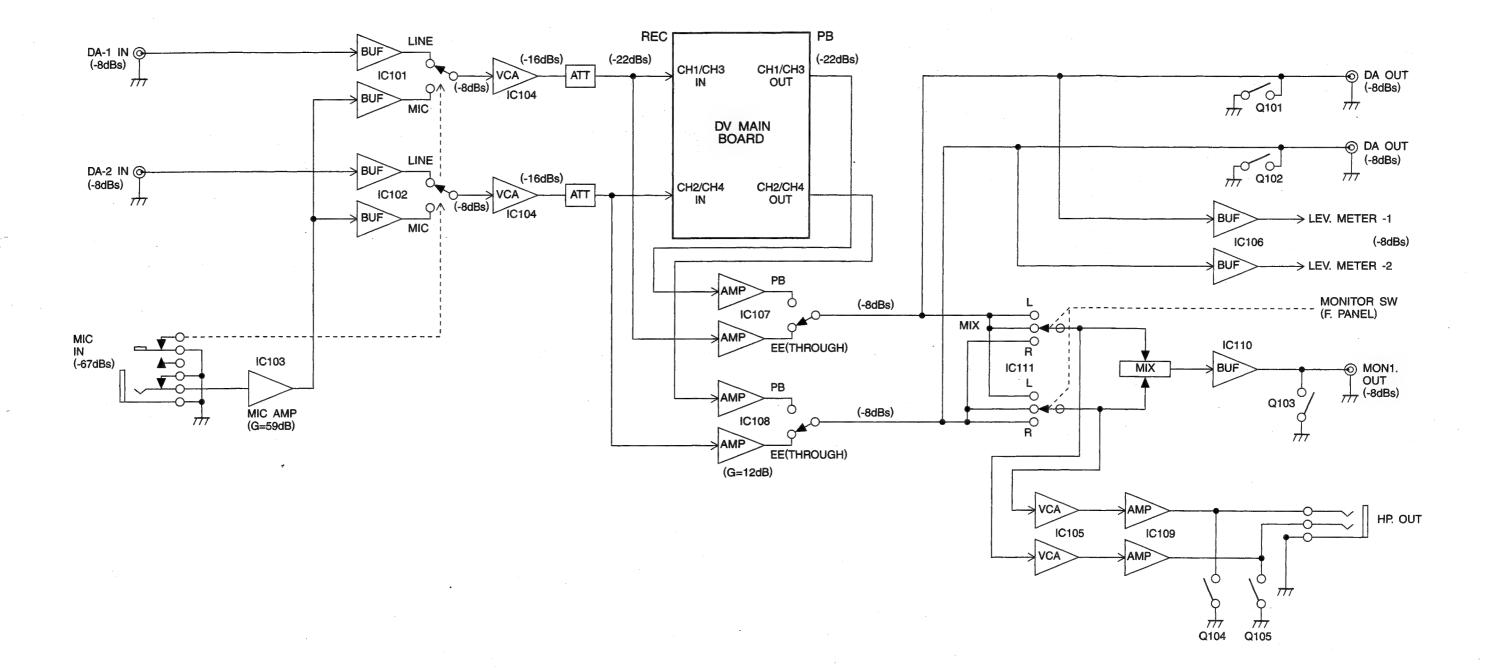


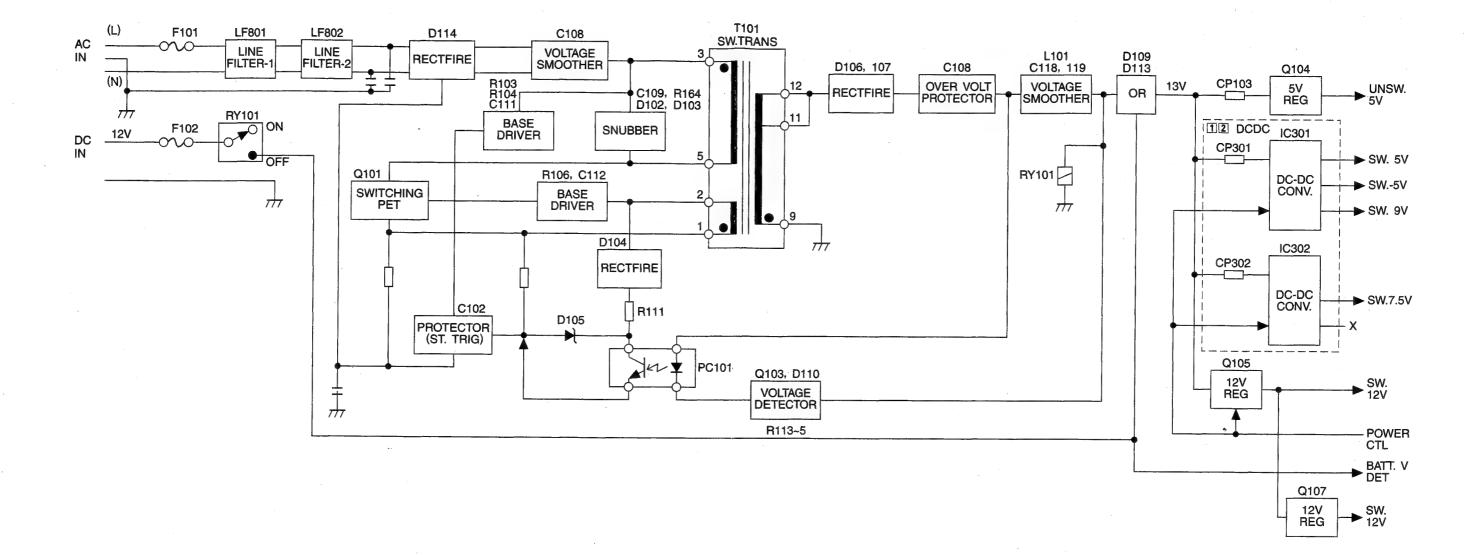


SL92239



SL93113

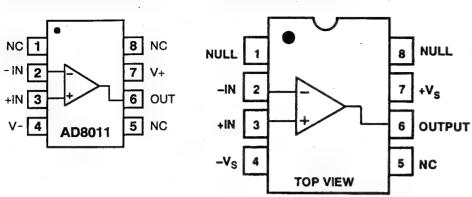




4.34 IC BLOCK DIAGRAMS

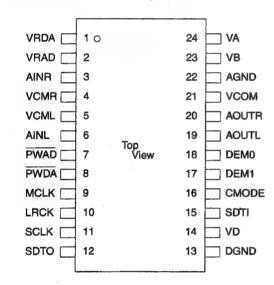
■ AD8011AR-X [ANALOG DEVICES] (Current Feedback Amplifier)

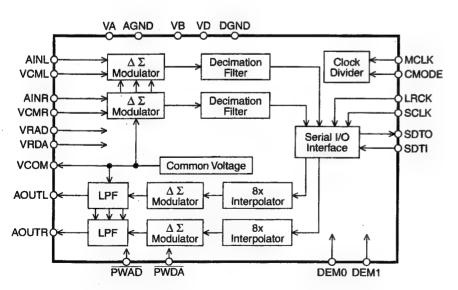




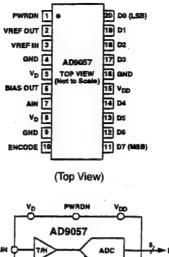
NC = NOT CONNECTED

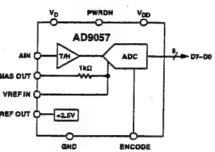
■ AK4518-VF-X [ASAHIKAEI] (16 bit A/D, D/A Convertor for Audio Signal)



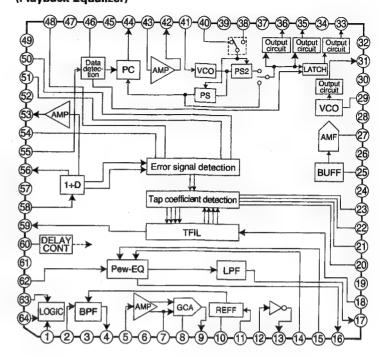


■ AD9057BRS-60-X [ANALOG DEVICES] (8bit A/D Converter)

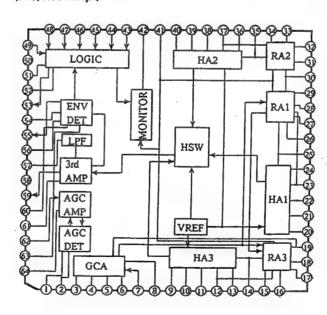




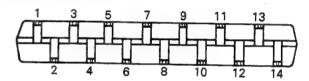
AN3741FAP-A [MATSUSHITA] (Playback Equalizer)

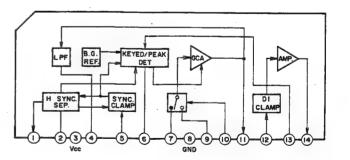


■ AN3731FHQ [MATSUSHITA] (Pre/Rec Amp.)

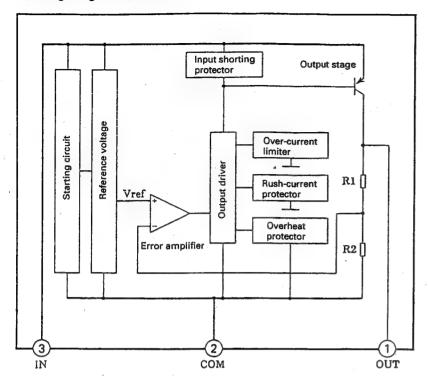


AN3916-/LF/ [MATSUSHITA] (Video AGC)

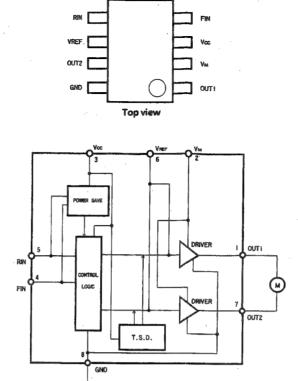




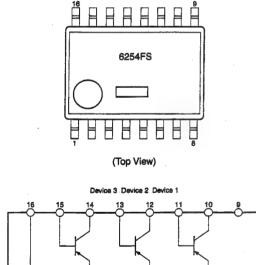
AN77L03M-X [MATSUSHITA] (Voltage Regulator)



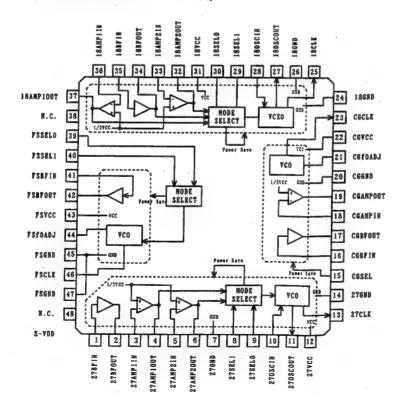
■ BA6417F-X [ROHM] (Reversible Motor Driver)



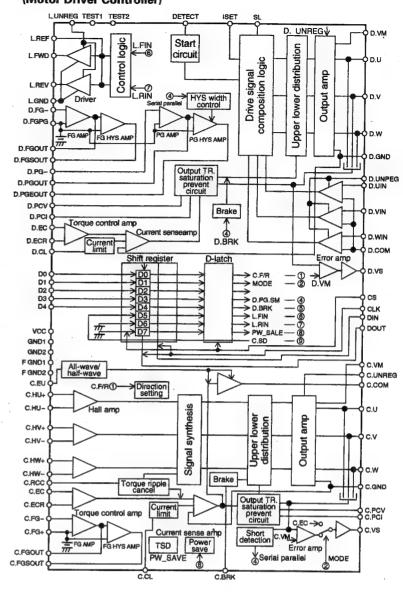
■ BA6254FS-X [ROHM] (Motor Driver)



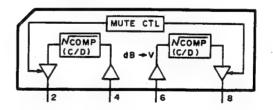
■ BH7086KV [ROHM] (4 Channel VCO for DVC format)



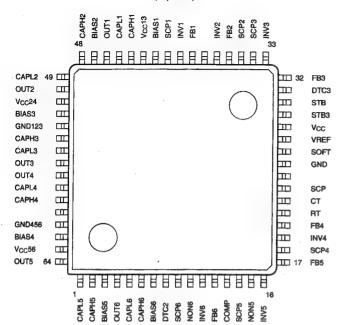
■ BA6865KV [ROHM] (Motor Driver Controller)

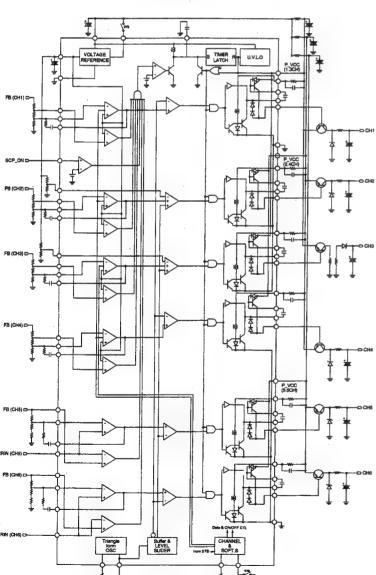


■ BA6138F-X [ROHM] (Audio Level Detector)

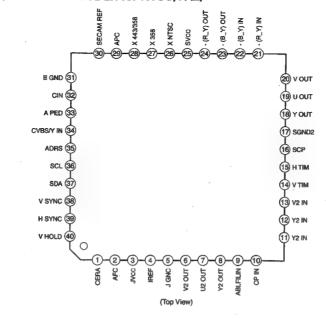


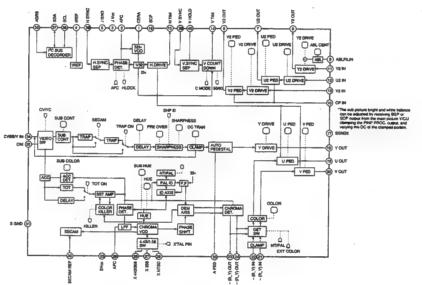
■ BA9738KV [ROHM] (6 Channel Switching Regurator Controller)



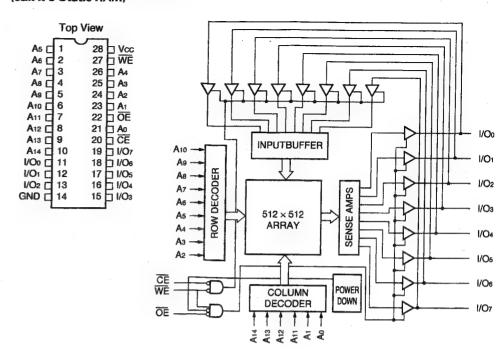


■ CXA2019AQ [SONY] (CHROMA DECODER for NTSC/PAL)

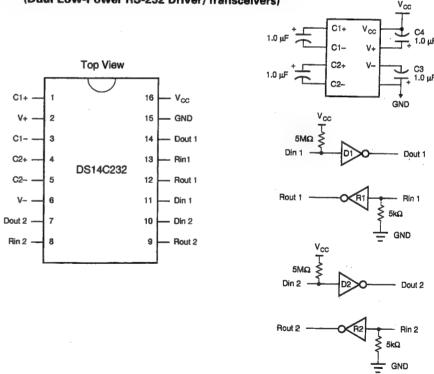




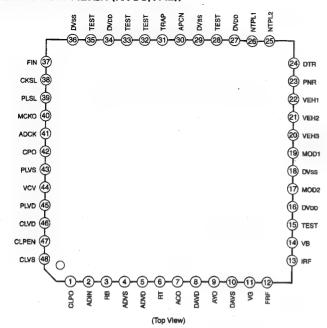
■ CY62256LL70SN-X [CYPRESS] (32k x 8 Static RAM)

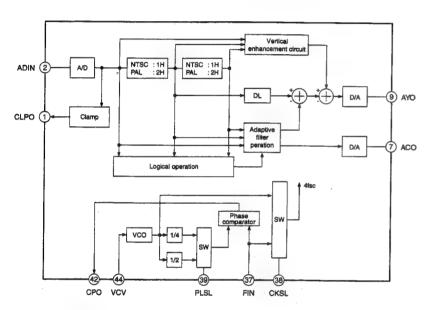




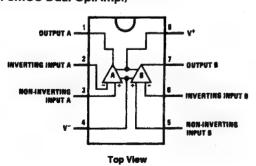


■ CXD2064Q [SONY] (DIGITAL COM FILTER (NTSC/PAL))





■ LMC6082IM-X [National Semiconductor] (Precision CMOS Dual Op.Amp.)

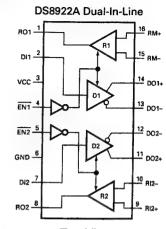


Pin Description

Pin No.	Symbol	1/0	Description
1	CLPO	0	Internal clamp circuit current output. Connect to ADIN when using the internal clamp. Leave this pin open when not in use.
2	ADIN	1	Comb filter analog input (A/D converter input).
3	RB	0	Reference bottom voltage for the A/D converter (0.52V typ.).
4	ADVS	<u> </u>	A/D conventer analog ground,
5	ADVD	-	A/D converter analog power supply. (5.0V)
6	RT	0	Reference top voltage for the A/D converter (2.60V typ.).
7	ACO	0	Analog chroma signal output. Output can be obtained by connecting a resistor between this pin and the analoground.
8	DAVD	_	D/A converter analog power supply. (5.0V)
9	AYO	0	Analog luminance signal output. Output can be obtained by connecting a resistor between this pin and the analoground.
10	DAVS	-	D/A converter analog ground.
11	VG	0	D/A converter related pin. Connect a capacitor of approximately 0.1µF between this pin and the analog power supply (DAVD).
12	VRF	1	Sets the full-scale value of the Y and C-channel D/A converter output signal.
13	IRF	0	Connect a resistor of "16FI" (16 times the output resistor "FI" of the D/A converte
14	VB	0	D/A converter related pin. Connect to the analog ground (DAVS) via a capacitor of approximately 0.1µF.
15	TEST	1	Test pin. Normally fix to "Low".
16	DVto	_	Digital power supply. (5.0V)
18	DVss	_	Digital ground.
17	MOD2	ı	Y/C separation mode setting. MOD2 MOD1 L Adaptive processing mode
19	MOD1	1	H L BPF separation mode H H Through mode
20	VEH3	ı	N
21	VEH2	1	Vertical enhancement setting. Can be set in 8 stages from VEH3 VEH2 VEH1: LLL (off) to HHH (max.)
22	VEH1	1	The value of the v
23	PNR	1	L: NTSC/H: PAL, M-PAL, N-PAL
24	DTR	I	Normally fix to "Low".
25	NTPL2	1	NTSC/PAL/M-PAL/N-PAL mode setting. NTPL2 NTPL1 L NTSC
26	NTPL1	1	L H PAL H L M-PAL H H N-PAL
\dashv	_	_	77 71 14172

Pin No.	Symbol	1/0	Description
28	TEST	T	Test pin. Normally fix to "Low".
29	DVss	-	Digital ground.
30	APCN	1	Horizontal aperture correction circuit setting. Low: Off, High: On.
31	TRAP	T	Trap filter setting. Low: Off, High: On.
32	TEST	1	Test pin. Normally open or fix to "Low".
33	TEST	T	Test pin. Normally open or fix to "Low".
34	DVoo	-	Digital power supply. (5.0V)
35	TEST	1	Test pin. Normally open or fix to "Low".
36	DVss	-	Digital ground.
37	FIN	1	Clock input. Input the burst-locked fsc (2fsc) when using the internal PLL input the burst-locked 4fsc when not using the internal PLL.
38	CKSL	1	PLL control. Low: The internal PLL iii not used. The clock (4fsc) which is input to FIN is supplied internally. High: The internal PLL is used. VCO oscillation output 4fsc clock is supplied internally.
39	PLSL	1	Selects the clock input to FIN. Low: fsc, High: 2fsc. When inputting 4fsc to FIN (when not using the internal PLL), this pin may be se to either "Low" or "High".
40	MCKO	0	Clock (4fsc) output.
41	ADCK	1	Clock input for A/D converter. Normally connect to MCKO.
42	CPO	0	PLL phase comparator output. Leave open when not using the PLL.
43	PLVS	_	PLL analog ground.
44	VCV	ı	VCO control voltage input. Connect to PLVS when not using the PLL.
45	PLVD	-	PLL analog power supply. (5.0V)
46	CLVD	-	Ciamp D/A converter analog power supply. (5.0V)
47	CLPEN	1	Clamp circuit enable pin. Low: Clamp on, High: Clamp off.
48	CLVS	_	Clamp D/A converter analog ground,

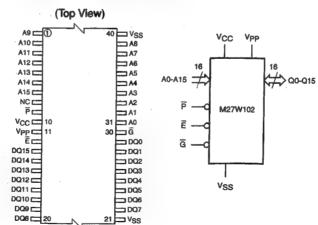
■ DS8922M-X [NATIONAL SEMICONDUCTOR] (RS-422 Dual Differential Line Driver and Receiver Pairs)



Top View

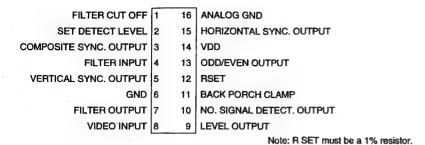
				* .	
EN1	EN2	RO1	RO2	DO1	DO2
0	0	ACTIVE	ACTIVE	ACTIVE	ACTIVE
1	0	HI-Z	ACTIVE	HI-Z	ACTIVE
0	1	ACTIVE	HI-Z	ACTIVE	HI-Z
1	1	HI-Z	HI-Z	HI-Z	HI-Z

■ M27W102-80N6-** [ST MICRO ELECTRONICS] (1M Bit (64kb x 16) EPROM)

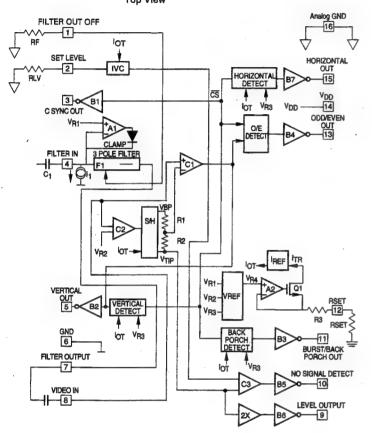


A0-A15	Address Inputs
Q0-Q15	Data Outputs
Ē	Chip Enable
G	Output Enable
P	Program
Vpp	Program Supply
Vcc	Supply Voltage
V _{SS}	Ground

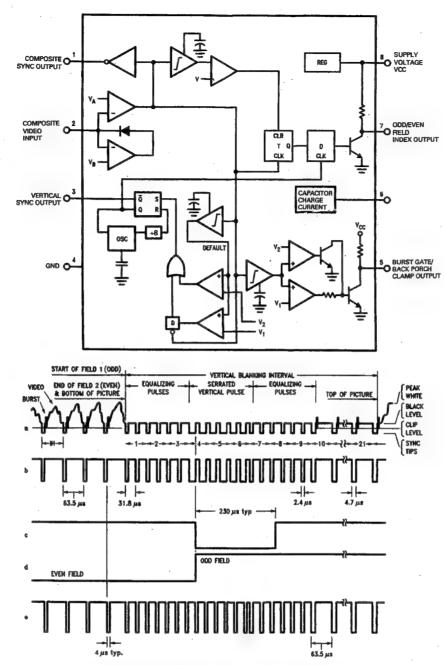
■ EL4583CS-X [ELANTEC] (Video Sync Separator)



Top View

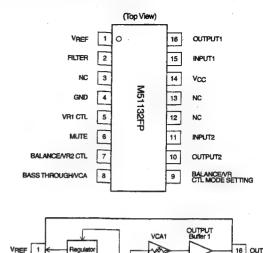


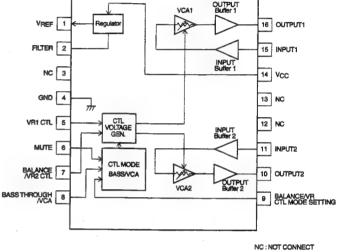
■ LM1881M-X [National Semiconductor] (Video Sync Separator)



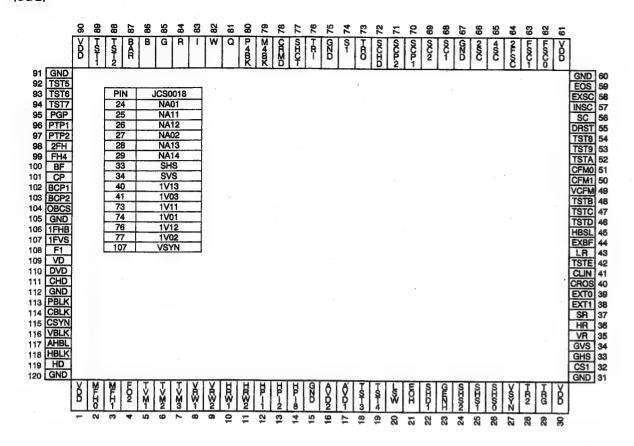
(a) Composite Video; (b) Composite Sync; (c) Vertical Output Pulse; (d) Odd/Even Field Index; (e) Burst Gate/Back Porch Clamp

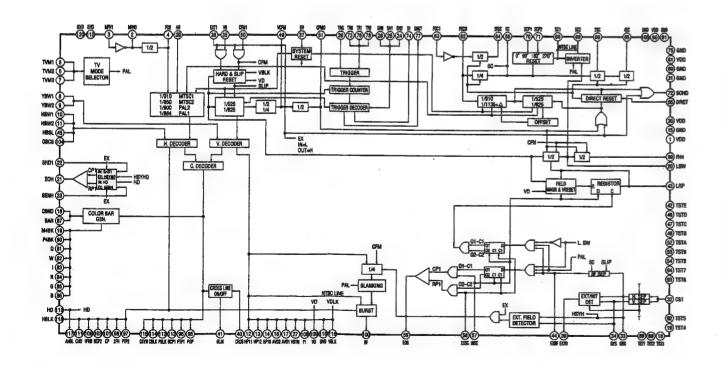
■ M51132FP-X [MITSUBISHI] (2 Channel Electrical VR/Balance for Audio Level)





JCS0027 [JVC] (SSG)





Tem	ninal Spe	ecifications of JCS0027 (4th Revision)	Pin No.	Pin Name	Function				
		Pin No.	12	HP11	H. pulse 11				
		Pin Name	1		H. pulse to be active at 11H, 13H, 15H and 17H.				
Ι	<u> </u>				0 9				
2 0	osco	Oscillation Output	13	HP12	H. pulse 12				
	J O				H. pulse to be active at 12H and 14H.				
	1 1				0 9				
		Type of Buffer SU : Schmitt PU : Pull-up PD : Pull-down	14	HP18	H. pulse 18				
		TR: Tri-state BI: Bi-directional			H. pulse to be active at 18H.				
		Number : Output current (mA) Input/Output			0 9				
		Polarity	15	GND	Ground				
				-	- Cooking				
Pin No.	Pin Name	Function	16	AVD2	Pre-vertical drive pulse 2				
1	VDD	+5 Power supply			Vertical drive pulse whose phase is 8H				
2	MFHO	Synchronizing oscillation output	11		ahead of VD pulse. Functions as subcarrier blanking for				
		Output terminal for built-in oscillator		T	SECAM system.				
3	MFHI	Synchronizing oscillation input	17	AVD1	Pre-vertical drive pulse 1				
"		Input terminal for built-in oscillator			Vertical drive pulse whose phase is 1H				
		I mput terrimarior bulleri oscillator]		ahead of VD pulse.				
4	F02	1/2 divided output		T	0 9				
		1/2 divided output of synchronizing oscillator	18	TST3	Test terminal 3				
5	TVM1	TV mode 1			Set this terminal open in general.				
			19	TST4	1 PU				
	-	I PU NTSC1 NTSC2 PAL2 PAL1 PALM SECAM	19	1514	Test terminal 4				
6	TVM2	TV mode 2		_	Set this terminal open in general.				
		TVM1 L H L H L H	20	LSW	Line switch				
ļ	_	I PU TVM2 L L H H L L		2011	Half-divided FH output.				
7	TVM3	TV mode 3			Switches color difference signal of neigh- boring lines by 180° in phase for PAL				
				П	o s system.				
	_	I PU	21	EOH	H. synchronizing digital phase comparison output				
8	VBW1	V. blanking control 1			As compared with leading edge of SHDI;				
		VBW1 L H L H VBW2 L L H H			when internal HD has advanced phase: Low level.				
	_	NTSC1 21H 20H 19H 18H			when internal HD has lagged phase: High level,				
9	VBW2	NTSC 2 21H 20H 19H 18H		-	when internal HD is in-phase: High impedance. 0 TR 13				
3	ADAAS	V. blanking control 2 PAL1 26H 25H 24H 23H PAL2 26H 25H 24H 23H	22	SHDI	H. synchronizing digital phase comparison input				
		PALM 21H 20H 19H 18H			(trailing detection)				
	-	I PU SECAM 26H 25H 24H 23H			Input of horizontal drive signal originating				
10	HBW1	H. blanking control 1			from subcarrier. Active when EXTI is low level. When this				
		HBW1 L H L H		-	is inactive, GHS (No. 33) is internally con-				
		HBW2 L L H H NTSC1 157T 156T 154T 152T			I SH PU				
		NTSC2 143T 147T 146T 152T	23	GENH	H. synchronizing digital phase comparison input (trailing detection)				
11	HBW2	H. blanking control 2 PAL1 162T 159T 156T 153T			Input for external synchronization, hori-				
		PAL2 170T 167T 164T 161T PALM 148T 147T 146T 144T			zontal synchronization and phase adjust- ment. Active when EXTI is high level.				
	-	SECAM 162T 159T 156T 153T		_ }	When this is inactive, HD (No. 119) is				
L i	!	' FV	1 1	- 1	SH PU internally connected.				

Pin	Pin		Function	1				Pin No.	Pin Name		Function				
No. 24	Name SHS2	Shutter speed setting 2	!					35	VR	Vertical reset					
		Random shutter setting								External synchronizing input by slip					
		function (Refer to the				Shutter	speed				system. If this system is input in vertical				
		specifications.)	SHS2 S	SHS1	SHS0	NTSC	PAL				sync. period, hard reset is activated. Input				
	_	I PU	L	Ļ	L	1/60	1/50		T	1 PU	in other period stops internal counter for a period of pulse width.				
25	SHS1	Shutter speed	L	L	Н	1/100	1/120	36	HR	Horizontal reset					
		setting 1 Random shutter	L	н	L	1/2	50				Presets horizontal component 1T before				
		setting function (Refer	L	н	Н	1/5	00				rise of HD. Jitters in a period shorter than 140 ns are absorbed. However, operation				
		to the specifications.)	н	L	L	1/1	000		٦	I PU	is not secured for continuous input.				
26	SHS0	Shutter speed	н	L	Н	1/2	000	37	SR	System	reset				
20	01100	setting D	н	Н	L	1/4	000			o you	Inside of IC is forcibly initialized regardless				
		Random shutter setting function (Refer	н	н	н	1/1	0000				of internal or external synchronization. VR and HR inputs are ineffective. Jitters				
		to the specifications.)							_	<u></u>	in a period shorter than 140 ns are absorbed.				
		I PU								I PU					
27	VSYN	V. sync. output						38	EXTI	Internal/	External synchronization setting input				
		Vertical sy pulse width		izing	signa	el of \	/. EQ				L : Internal synchronization				
	7.5								_		H: External synchronization				
	T	0 9								i PD					
28	TR2	Sync. reset mode settir					39	EXTO	Internal/	External synchronization setting output					
		For sync. r									L: Without CSI input After detection of no SHS, another SHS is				
		dom snatte	n securi	giun	CHOHS	is dou	ratou.				not detected for a period of 8 fields. H: With CSI input				
		I PU							ļ		After detection of SHS, 200 or more				
29	TRG	Trigger input							_	SHS's are detected in 1 vertical perio					
		Trigger inp setting fur						40	CROS	Cross O	N/OFF input				
		shutter spe			51 10	110 101	idom	!			L: To stop cross output				
	_	I PU									H: To activate cross output operation For detail, refer to supplementary specifi-				
30	VDD	+5V power supply							<u> </u>	1 PD	cations of respective terminals.				
								41	CLIN	Cross o	utput				
31	GND	Ground				-		1			· _				
											To output a cross in the center of screen. For detail, refer to supplementary specifi-				
32	CSI	Ext. composite sync. si	ignal inp	out]		cations of respective terminals.				
		To input ex	ternal c	omo	osite s	synchro	nizina	42	TSTE	0 9 Test ter	minal F				
		signal for tion and ex	horizont	tal a	nd ve	rtical s	epara-			. 300 101	Set this terminal open in general.				
	7	1 SH PU	i. Sylic.	၁၊မျှ ၊	ur napu	i uelel	AUII.		_	I PU	oot and terrinial open in general.				
33	GHS	Horizontal separate syl	nc.					43	LR	Line res	et				
					nian-l	of -			-		When EXTI is external synchronization				
		Horizontal composite	synchro	nizin	ıg sign						(High level), setting signal is supplied to LSW. When internal burst is ahead of				
	7	alent pulse	is not in	nclud	ied.						external burst in phase, High level is out- put.				
34	GVS	Vertical separate sync.					-				When internal burst is behind external burst in phase, Low level is output (for 6				
		Vertical s		ei.	nnal	of ev	ternal				clocks of SC).				
		composite	synchro	onizir	ig sign						Phase comparison is not operated for one field after output.				
	1	alent pulse	is not it	ncluo	ed.				1		For detail, refer to supplementary specifi- cations of respective terminals.				
		0 9			<u></u> -]		0 9	L				

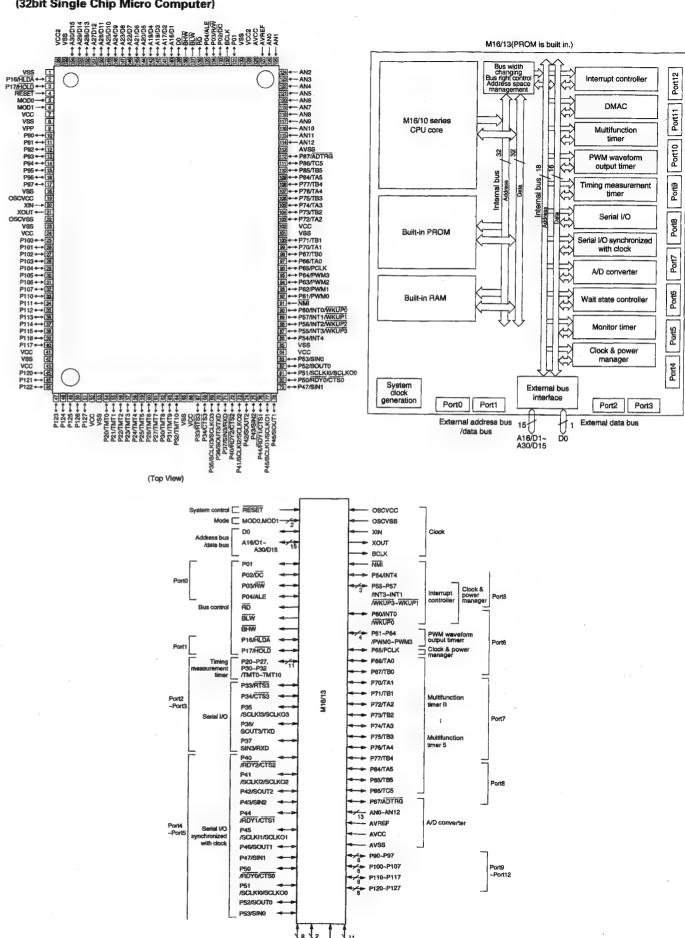
EXBF Brust flag separate output With detection of one or more 4, sync pulse from CSI input, pulse whose width For details, refer to supplementary specifications of respective terminals To switch output position of IFH8 (108), L. System delay 900 ns approx. H. Dianking reset To switch output position of IFH8 (108), L. System delay 900 ns approx. H. Dianking reset To switch output position of IFH8 (108), L. System delay 900 ns approx. H. Dianking reset To switch output position of IFH8 (108), L. System delay 900 ns approx. H. Dianking reset color frame synchron for counter for subcarrier. To reset color frame synchron horizontal counter with High reset color frame synchron horizontal counter with High reset color frame synchron horizontal counter with Low level. To monitor subcarrier signal internally with digital phase compared with CS (168) is in phase. Shall be connected with SC (168) is in	Pin No.	Pin Name		Function	Pin No.	Pin Name	Function
pulse from CSI input, pulse whose width is for 6 cycles of subcarrier is output. For details, refer to supplementary specifications of respective terminals. H. blanking reset To switch output position of IFHB (108). L. System delay 900 ns approx. H. System delay 450 ns approx.			Brust flag	separate output	1		Test terminal B
HBSL H. blanking reset To switch output position of IFHB (108). L. System delay 900 ns approx. H. System delay 900 ns approx. H. System delay 900 ns approx. H. System delay 900 ns approx. H. System delay 900 ns approx. H. System delay 400 ns				pulse from CSI input, pulse whose width is for 6 cycles of subcarrier is output.			Set this terminal open in general.
To switch output position of IFHB (106). L: System delay 900 ns approx. H: System delay 900 ns approx. I PU			0 9	cations of respective terminals.		-	i PU
Lispatem delay 900 ns approx. His system delay 450 ns approx	45	HBSL	H. blanking	greset	55	DRST	Direct reset terminal
Set this terminal open in general. Set this			I PU	L: System delay 900 ns approx.			To switch reset operation of horizontal counter for subcarrier.
TSTC Test terminal C Set this terminal open in general. 56 SC Subcarrier output To monitor subcarrier signal internally with digital phase com When phase of SC1 (88) is 0°, is inphase. Set this terminal open in general. Set this terminal open in genera	46	TSTD	Test termi				horizontal counter with High level; To reset color frame with Low level.
Set this terminal open in general. Set this terminal open in general. To monitor subcarrier signal internally with digital phase com When phase of SC1 (68) is 0°, is inphase.		_	BI PU 9			 -	I PU
Set this terminal open in general. Set this terminal open in general. Set this terminal open in general. Set this terminal B	47	TSTC	Test termi	nai C	56	sc	Subcarrier output
Second Part Second Part		_		Set this terminal open in general.			To monitor subcarrier signal connected internally with digital phase comparator. When phase of SC1 (68) is 0°, this output
Set this terminal open in general. Shall be connected with SC (56) Effective when EXBF is low lever Pulse rise is detected.			BI PU 9				O 9 s inphase.
Set this terminal open in general. Pul	48	TSTB	Test termi	nal B	57	INSC	Internal subcarrier input
VCFM VTR color frame Color frame for VTR exclusively. 2-field period for NTSC1, NTSC2 and PAL. 4-field period for PAL1, PAL2 and SECAM. O S SECAM. CFMI Color frame input Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip system. The pulse rise is detected. Set this terminal open in general.				Set this terminal open in general.			Shall be connected with SC (56). Effective when EXBF is low level. Pulse rise is detected.
Color frame for VTR exclusively. 2-field period for NTSC1, NTSC2 and PAL. 4-field period for PAL1, PAL2 and SECAM. CFMI Color frame input Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip system. To pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. To pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. Test terminal A Set this terminal open in general. Set this terminal open in general. Set this terminal open in general. CCMI Color frame input Effective when EXBF is low level Pulse rise is detected. Digital phase comparison output for subcarrier As compared with leading edge of EXSC, when internal SC has advanced phase: I when internal SC has lagged phase: I when internal SC is in phase: High in internal SC is in ph			I PU				1
2-field period for NTSC1, NTSC2 and PAL. 4-field period for PAL1, PAL2 and SECAM. CFMI Color frame input Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip system. The pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2. 8-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. Test terminal A Set this terminal open in general. Set this terminal open in general. Effective when EXBF is low level. Pulse rise is detected. Digital phase comparison output for subcarrier As compared with leading edge of EXSC, when internal SC has advanced phase: I when internal SC has agged phase: I when internal SC is in phase: High in the pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2. 8-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. 61 VDD +5V power supply 62 FSC0 Oscillator output for subcarrier Dil Pul Set this terminal open in general. Half-divided oscillator output for	49	VCFM	VTR color i	frame	58	EXSC	External subcarrier input
CFMI Color frame input Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip system. System. First period for NTSC1 and NTSC2. Sefield period for PAL1, PAL2, PALM and SECAM. Set this terminal open in general.				2-field period for NTSC1, NTSC2 and PAL.	i		Effective when EXBF is low level. Pulse rise is detected.
Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip system. 51 CFMO Color frame output Pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. 52 TSTA Test terminal A Set this terminal open in general. 60 GND Ground 61 VDD +5V power supply 62 FSCO Oscillator output for subcarrier 63 FSCI Oscillator input for subcarrier 64 2FSC Double subcarrier output Half-divided oscillator output for		Ш	0 9			ل ا	
Pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. 52 TSTA Test terminal A Set this terminal open in general. 60 GND Ground 61 VDD +5V power supply 62 FSCO Oscillator output for subcarrier 0	50	_		Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip	59	EOS	Digital phase comparison output for subcarrier As compared with leading edge of EXSC; when internal SC has advanced phase: Low level, when internal SC has lagged phase: High level, when internal SC is in phase: High impedance.
color frame. 4-field period for NTSC1 and NTSC2. 8-field period for PAL1, PAL2, PALM and SECAM. 52 TSTA Test terminal A Set this terminal open in general. 61 VDD +5V power supply 62 FSCO Oscillator output for subcarrier 63 FSCI Oscillator input for subcarrier 64 2FSC Double subcarrier output 65 Double subcarrier output 66 Double subcarrier 67 Double subcarrier output 68 Double subcarrier	51	CFMO	Color fram	e output			O TR 13
52 TSTA Test terminal A Set this terminal open in general. 1 PU 62 FSCO Oscillator output for subcarrier 0 OSCILLATOR OSCILLATOR OUTPUT FOR SUBCARRIER 63 FSCI Oscillator input for subcarrier 1 PU 64 2FSC Double subcarrier output Half-divided oscillator output for				color frame. 4-field period for NTSC1 and NTSC2.	60	GND	Ground
Set this terminal open in general. 62 FSCO Oscillator output for subcarrier		Ш	0 9		61	VDĎ	+5V power supply
Set this terminal open in general. 1 PU 63 FSCI Oscillator input for subcarrier Test terminal 9 64 2FSC Double subcarrier output Half-divided oscillator output for	52	TSTA	Test termin	nal A			
TST9 Test terminal 9 63 FSCI Oscillator input for subcarrier 1 PU 64 2FSC Double subcarrier output Half-divided oscillator output for				Set this terminal open in general.	62		
Set this terminal open in general. 64 2FSC Double subcarrier output Half-divided oscillator output for			 		63		
Set this terminal open in general. Half-divided oscillator output for	53	TST9	Test termin	nal 9			
				Set this terminal open in general.	64	2FSC	
			· I PU	· .		П	Half-divided oscillator output for subcarrier 0 13

Pin No.	Pin Name			Fund	ction	<u>-</u>	Pin No.	Pin Name			Fu	nction				
65	4SC	1/4 subcarrie	er output				75	GND	Ground							
	П	0 9	1/4-divide	ed outp	out of s	ubcarrier frequency	76	TR1	Random re	Random reset system setting input						
66	2SC	1/2 subcarrie	er output			<u> </u>	~	'''	To determine reset system setting sys							
	П		1/2-divide	ed outp	out of s	ubcarrier frequency				tem. L: SYNC system.	reset	syste	m, H: S	SYNC n	on-reset	
67	GND	O 9 Ground								(Refer t				ons of	random	
67	GND	Ground						_	1 PD	shutter setting function.)						
68	SC1	Subcarrier 1					77	SHCT	Shutter co	ntrol outpo	ıt					
		1	In PAL m	change	d by S	utput. CP1 and SCP2. not changed every	:			Electroni Shall be (µPD943 (Refer t	conne 8GK).	ected	to SH	ICT (19		
		0 9	Н.						0 9	shutter s				113 01	ISHUOIH	
69	SC2	Subcarrier 2					78	CBMD	SMPTE/FU							
		į, i	is 90° ahe	ead of S	SC1.	utput whose phase				To swite	th colo	or bai	_			
			in PAL n	change node, p	d by Sohase	CP1 and SCP2. s inverted by 180°		_		L: Full Fi			٦─₽	iffective o IAR signa evel.		
		0 3	every H.						I PU		sovet.					
70	SCP1		elect 1 Note: SC2 is exp	i hassari	hased A	o SC1	79	M4BK	Color bar signal		BAR	CBMD) 1	1	w	
										NTSC1	н	Х	L		L	
		i PD	SCP2	SCP1	SC1	SC2				NTSC2	L	H	Effecti	ve Effecti	ve (75%W)	
71	SCP1	Subcarrier select 2	L	H	90°	90° ahead (270°)	80	_∏_ P4BK	0 9 Color bar	- PAL1	н	Х	L	+-	L	
			н	L	180°	90° ahead (90°)		F4DK	signal	PAL2	L	L	Effecti		ve (75%W) ve (100W)	
	_	I PD	Н	н	270°	90° ahead (180°)				PALM	H	Х	L	re Effecti	L ve (75%W)	
72	SCHD	Subcarrier ho	orizontal o	driver							L	L	L	,		
			Horizonta subcarrie			originating from	81	<u>.</u>	o 9 Color bar signal	SECAM	H	X H L	Effective L	ve Effecti	L ve (75%W)	
	丁	O 13							Signor							
73	TR0	Random shu	tter cont	rol syst	em set	ting input						Q	P4BK	M4BK		
		L	.: 8-stage	e defau	uit cont	control system. rol, H: Pulse width (Refer to the	82	w 	o 9 Color bar	- NTSC	Effe	L ctive	L Effective L	L Effective L		
	-	s		tions o		om shutter setting			signal	PAL1 PAL2	Effe	L ctive	L Effective L	L Effective L		
74	SI	Stroboscope	index ou	ıtput				几	0 9	PALM	- 1	L ctive	L Effective	L Effective		
						this output is for ting time.	83	1	Color bar signal			L	L	L		
		lı f	n randon or video	n shutte output o the s	er oper time. specific	ation, this output is cations of random			Jigi lai	SECA	M Effe	ctive I	L Effective L	L Effective L		
	7	0 9		g ''				几	0 9							
		olal]		0 9					··		

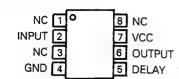
No.	Name			Fu	nction				No.	Name	Function									
84	R	Color bar							95	PGP	Pilot gate	Pilot gate pulse								
	J.	signal	NTSC1	BAR H	C3MD X	B	G	R		 	0 9	passe does other	s the f	1FH de ass the er to co	elay line e 1H l ompens	and the	als, one ne other th each enuation			
85	G	Color bar	NISG2	L	×	Effective	ETTECTIVE	Effective	96		 									
86	B	signal o 9 Color bar	PAL1 PAL2 PALM	H L	X X X	L Effective L Effective	L	L Effective L Effective	96	PTP1	Pilot pulse 1 Uniform voltage level of two signals, one passes the 1H delay line and the other does not pass the 1H line, with each other in order to compensate attenuation caused by the delay line.									
00	5	signal	SECAM	H	X	L Effective	Effective	L Effective	97	PTP2	0 9 Pilot pulse	2			 					
						ENOCUYE	CHOCUVO	EHACHAR	"	" "	I liot puise									
												Used	to cont	rol vide	eo level.					
	<u></u>	0 9								J	0 9									
87	BAR	Color bar co	ontrol (O	N/OFF					98	2FH	Double FH									
			BAR	R, G	B, I, (Q, W, P	4BK, M	4BK				NTSC1	NTSC2	PAL1	PAL2	PALM	SECAM			
			L			Effectiv						31.468	31 468	31 25	31.25	31,468	31.25			
		I PU	Н	<u> </u>	Fixe	d at Lo	w level			П	0 9			020	101.20	01,100				
88	TST2	Test termin	al 2						99	FH4	1/4FH	1/4FH								
			0									Half-di	ivided d	output (of LSW					
			Set this	termin	al ope	n in ger	nerai.					Equiva	lent to	25 Hz	in PAL	mode.				
	_	1 PU									0 9	0 9								
89	TST1	Test termin	al 1						100	BF	Burst flag									
			Set this	termin	al ope	n in ger	neral.				Regulates period to insert subcarrier into back porch of horizontal sync. signal. Functions to switch chromaticity signal for every line in SECAM mode.									
		I PU									0 9	every	iii e iii s	DECAIV	i mode.					
90	VDD	+5V power	supply						101	СР	Clamp pulse									
											Signal to clamp reference voltage of black									
91	GND	Ground				-						level.								
										T	0 9									
92	TST5	Test termin	al 5						102	BCP1	Black clam	p pulse	1							
			Set this	termin	al ope	n in gen	eral.					Fixes b	olack le	vel of (CCD out	tput sigr	nat.			
	_									7							İ			
		1 PU									0 9									
93	TST6	Test terminal 6								BCP2	Black clamp puise 2									
		Set this terminal open in general.									Fixes black level of CCD output signal (at every H output).									
		I PU				·				T	0 9	0 9								
94	TST7	Test termina	al 7						104	OBCS	Optical blad	Optical black pulse select								
			Set this	termin	at ope	n in gen	eral.					Switching of output position of horizontal BCP1 and BCP2. L: Frontward.output								
	_	ا و ا ه									I PII	H: Bac	kward (output			1			

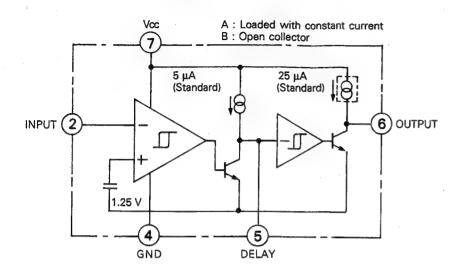
Pin No.	Pin Name	Function	Pin No.	Pin Name	Function
105	GND	Ground	115	CSYN	Composite sync.
					Composite synchronizing signal compris- ing of four signals of HSYN, VSYN, EQ
106	IFHB	Interface horizontal blanking		T	and SAW.
		Output pulse that is narrower than HBLK both in leading edge and trailing edge.	116	VBLK	V. blanking
	T	0 9			Vertical blanking signal whose pulse width can be changed with VBW1 and VBW2.
107	IFVS	Interface vertical synchronization			
		Normal function: To output vertical syn- chronization signal having the same pulse width of V. EQ pulse. Random shutter setting function: To out-	117	AHBL	Pre-horizontal blanking
		put the same signal as V. sync. signal in the fall time.			Pulse that HBLK is advanced in breaking of leading edge.
	5	0 9		T	0 9
108	Fi	Field index	118	HBLK	H. blanking
4	l	Field discrimination signal. L: Field that HD and VD fall at the same time.			Horizontal blanking pulse whose pulse width can be changed with HBW1 and HBW2.
	_	H: Field that there is a time lag of 0.5H in falling between HD and VD.		T	0 9
100	VD	0 9	119	HD	H. drive
109	VD	Vertical drive pulse Pulse output at the beginning of every			Pulse synchronized with beginning of respective lines. Used as horizontal timing
	٦.	field. Used as the vertical timing standard for the set.		Ţ	standard of the set.
440	7.	0 9	120	GND	Ground
110	DVD	Delayed vertical drive pulse		-	
•		Vertical drive signal that lags behind VD pulse. Controls camera's scanning timing and regulates activation time of sawtooth			
	T	waveform of vertical deflection circuit.			
111	CHD	Delayed horizontal drive pulse			
		Controls camera's scanning timing. Regulates activation time of sawtooth			•
	T	waveform of horizontal deflection circuit.			
112	GND	Ground			;
113	PBLK	Pre-blanking			
		Composite blanking signal used for video processing. As compared with CBLK signal, this signal			
	7.	As compared with CBLK signal, this signal is narrower in the leading edge.			*
114	CBLK	Composite blanking			
	 	Horizontal and vertical composite blanking signal.			
	T	0 9			

M31020EAVP-*** [MITSUBISHI] (32bit Single Chip Micro Computer)

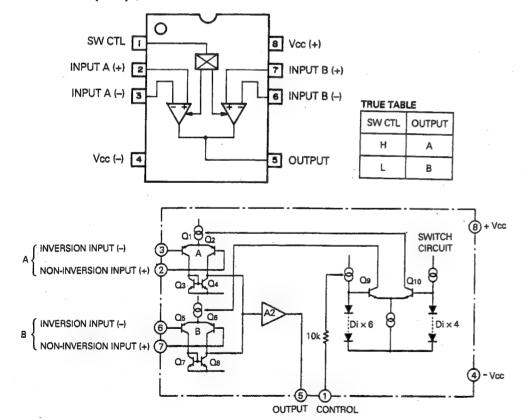


■ M51957BFP-X [MITSUBISHI] (Voltage Detector/System Reset)

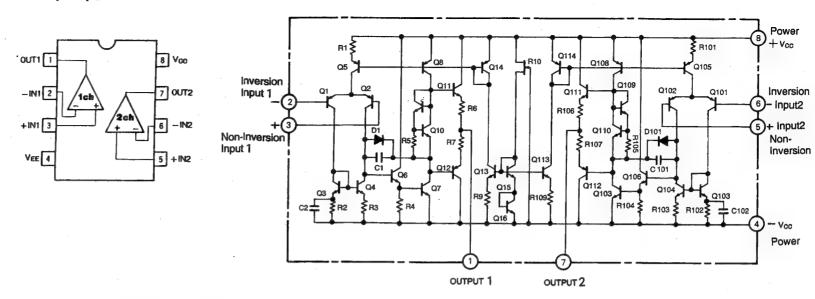




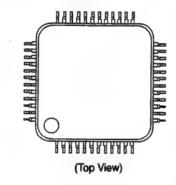
M5201FP-X [MiTSUBISHI] (Switch Op.Amp.)

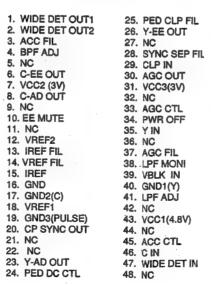


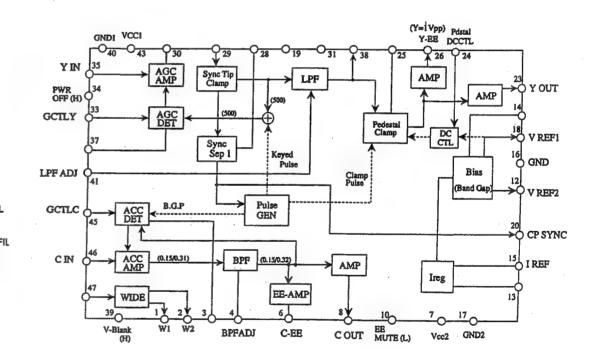
M5218AFP-X [MITSUBISHI] (Dual Op.Amp.)



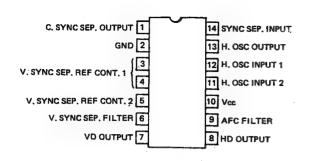
M52387FP [MITSUBISHI] (Digital Signal Interface)

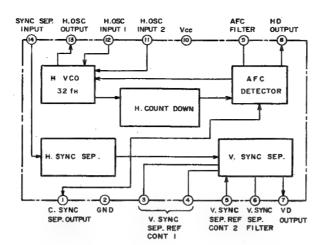




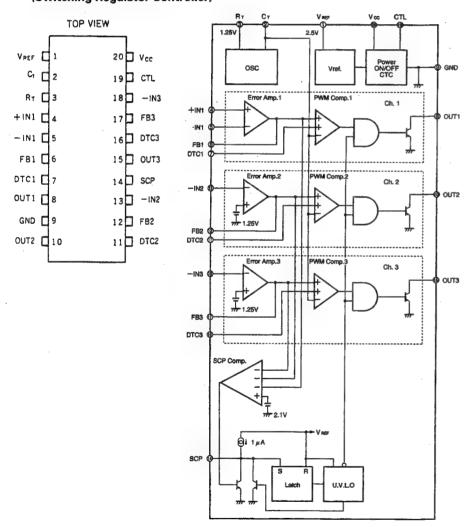


■ M52684AFP-XE [MITSUBISHI] (SYNC Separator and AFC)

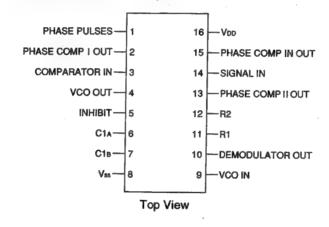


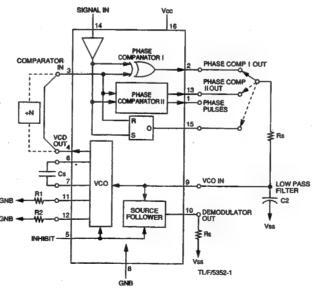


■ MB3782PF-X [FUJITSU] (Switching Regulator Controller)

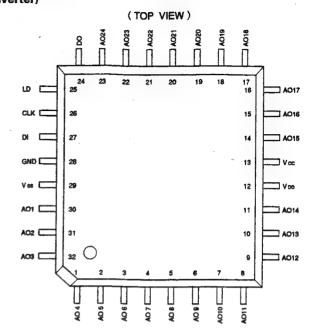


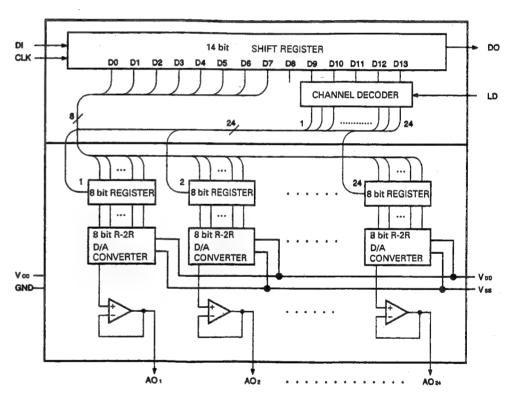
MC74HC4046AF-X [MOTOROLA] (CMOS Phase Lock Loop)



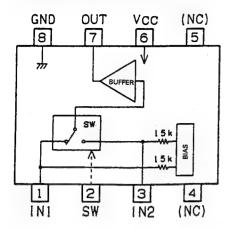


MB88345PF [FUJITSU] (D/A Converter)

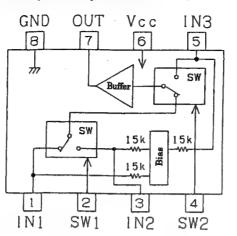




MM1111XF-X [MITSUMI] (2 Input 1 Output Video Switch)

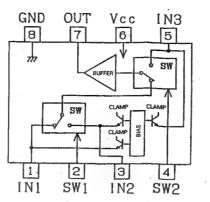


MM1113XF-X [MITSUMI] (2 Input 1 Output Video Switch)



(Top View)

MM1117XF-X [MITSUMI] (3 Input-1 Output Video Switch)



TRUTH TABLE

SW	OUT
L	INI
Н	IN2

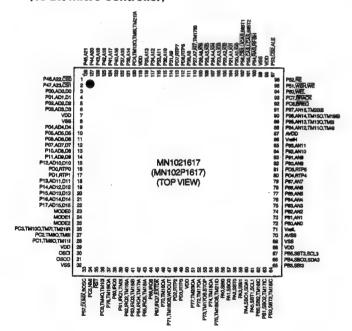
Truth value table for control IN

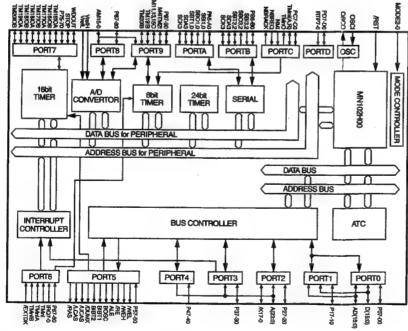
SWI	SW2	OUT
L	L	INI
Н	L	INS
	н	ING

TRUTH TABLE

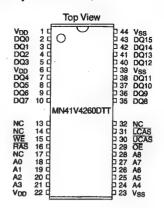
SW1	SW2	OUT
L	L	INI
Н	L	IN2
_	Н	IN3

MN102F1617HL-** [MATSUSHITA] (16 Bit Micro Controller)

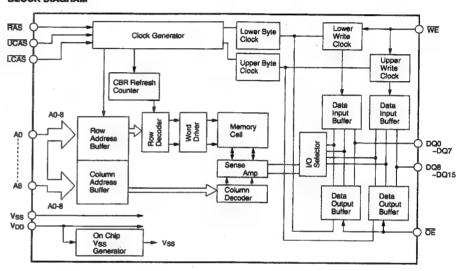




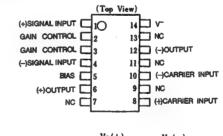
■ MN41V4260TT-A07 [MATSUSHITA] (4M(256k-word x 16bit)Dynamic RAM)

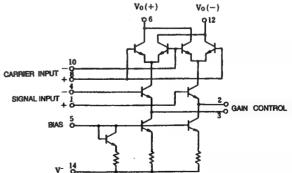


BLOCK DIAGRAM

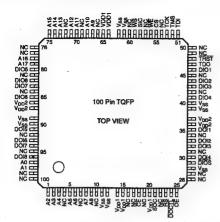


■ NJM1496V-X [JRC] (Balanced Modulator)



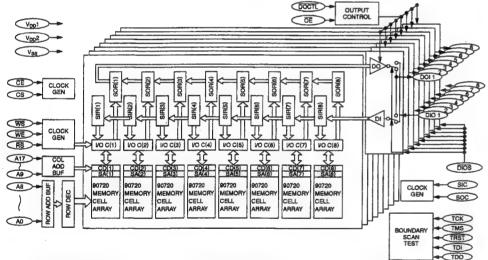


■ MN47V06AF [MATSUSHITA] (4.75Mbit (622080 word x 8bit) CMOS DRAM)



Pin Names

Symbol	Pin names	Symbol	Pin names
A0~A17	Address Inputs	DIOS	Data Input/Output Select
CE	Chip Enable	DOCTL	Data Output Control
ŌĒ	Output Enable	TCK	Boundary Scan Test Clock
WE	Write Enable	TMS	Boundary Scan Test Mode Select
WS	Write Strobe	TRST	Boundary Scan Test Reset
RS	Read Strobe	TDI	Boundary Scan Test Data Input
CS	Chip Select	TDO	Boundary Scan Test Data Output
SIC	Shift-in Clock	V _{DD} 1	Internal Power Supply (2.7V~3.3V)
SOC	Shift-out Clock	V _{DD} 2	I/F Power Supply (2.0V~V _{DD1} V)
DIO1~8	Data Input/Output	Vss	Power Supply (GND)
DOI1~8	Data Input/Output	NC	No Connection



SIR : SHIFT IN REGISTER CD : COLUMN DECODER SOR : SHIFT OUT REGISTER SA : SENSE AMPLIFIER

I/O C : I/O CONTROLLER DI : DATA IN BUFFER

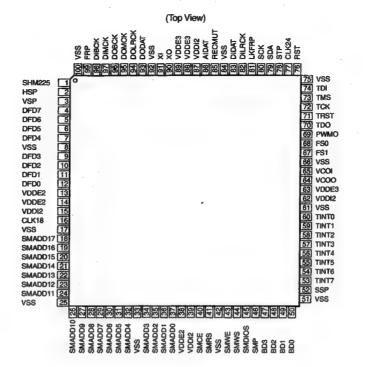
DO : DATA OUT BUFFER

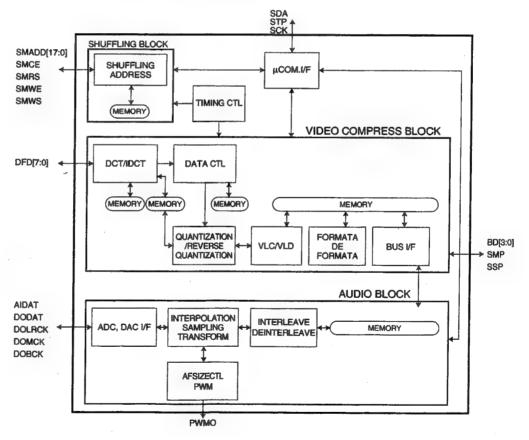
CLOCK GEN : CLOCK GENERATOR **ROW ADD BUF: ROW ADDRESS BUFFER**

COL ADD BUF: COLUMN ADDRESS BUFFER ROW DEC : ROW DECODER

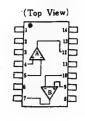
■ MN47V07AF [MATSUSHITA] (Refer to MN47V06AF.)

MN67373 [MATSUSHITA] (Video Compress and Audio DSP at DV Format)





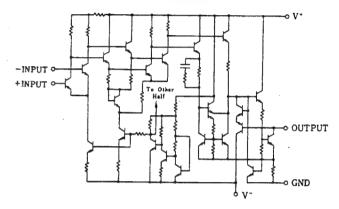
NJM319M-X [JRC] (Voltage Comparator)

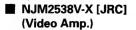


1 . NC 2 . NC 3 . A GND 4 . A+INPUT 4 . A + INPUT 5 . A - INPUT 6 . V -7 . B OUTPUT 8 . B GND

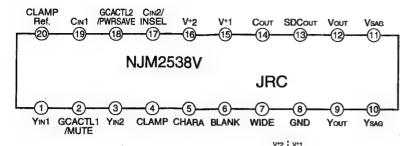
9. B+INPUT 10. B-INPUT 11. V+ 12. A OUTPUT

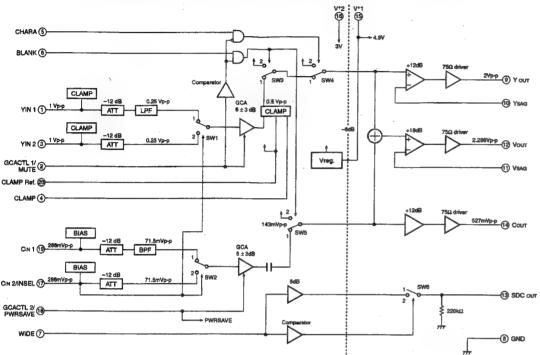
13. NC 14. NC



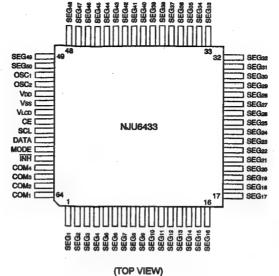


(Top View)

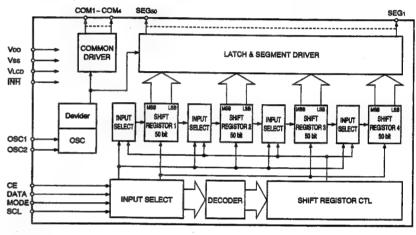




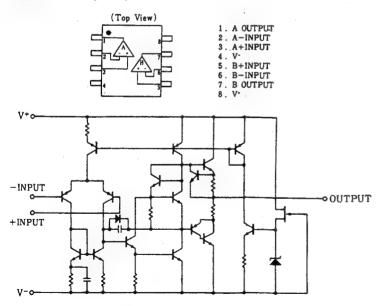
NJU6433FB2 [JRC] (1/4 Duty LCD Driver)



No.	Symbol	Function		
1~50	SEG1~SEG50	Segment output for LCD driver		
51	OSC1	000		
52	OSC2	OSC terminal		
53	VDD			
54	VSS	GND		
55	VLCD	Power source for LCD drive		
56	CE	H level : Data input		
		Drop-down edge : Data latch		
		L level : Disable		
57	SCL	Clock input for serial data trancefar.		
58	DATA	Serial data input.		
59	MODE	H level : Mode seting		
		L level : Data input for LCD display		
60	INH	L level : LCD is not display		
		H levei : LCD is display		
61~64	COM4~COM1	Common output for LCD drive.		

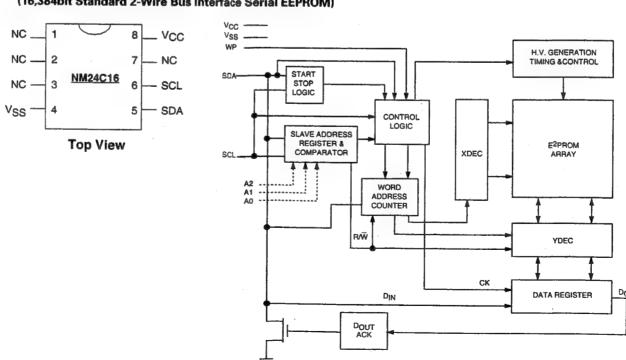


NJM4556AM-X [JRC] (Dual High Current Op.Amp.)



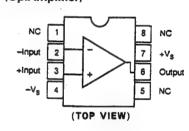
■ NM24C16LEM8-X [FAIRCHILD] (16,384bit Standard 2-Wire Bus Interface Serial EEPROM)

4-72



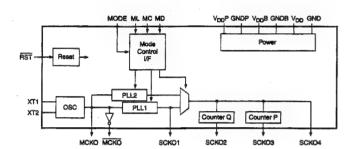
4-72

OPA658U-XE [BBJ] (Op.Amplifier)

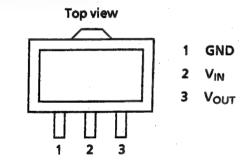


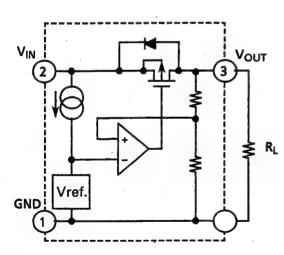
■ PLL1700E-X [BURR-BROWN] (Programmable Dual PLL Clock Generator)





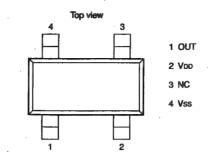
■ S-81233SGUP-X [SEIKO] (Voltage Regulator(3.3V))

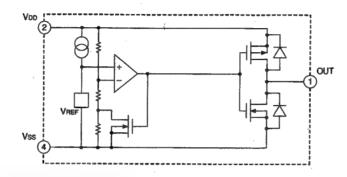




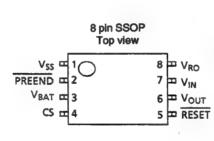
S-81240PG-PJ-X [SEIKO] (Refer to S-81233SGUP-X.)

■ S-80840ANNP-W [SEIKO] (Precision Voltage Detector)

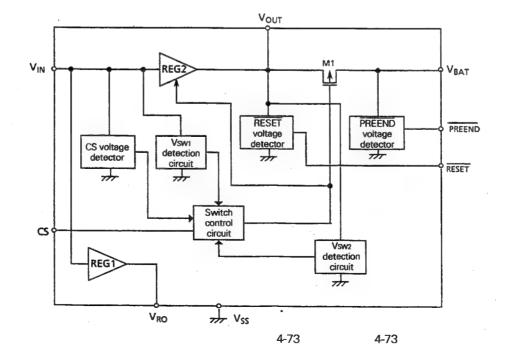




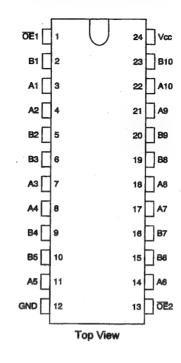
■ S-8423LFS-X [SEIKO] (Battery Back-up Selector)



Pin name	Description
CS	Output terminal for CS voltage detector
RESET	Output terminal for RESET voltage detector
PREEND	Output terminal for PREEND voltage detector
Vin*	Input terminal for main power supply
VBAT*	Power input terminal for backup
Vour*	Output terminal for voltage regulator 2
VRO*	Output terminal for voltage regulator 1
Vss	GND

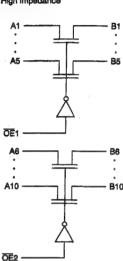


■ SN74CBT3384APWX [TEXAS] (10 Bit Cross Bar Switch)

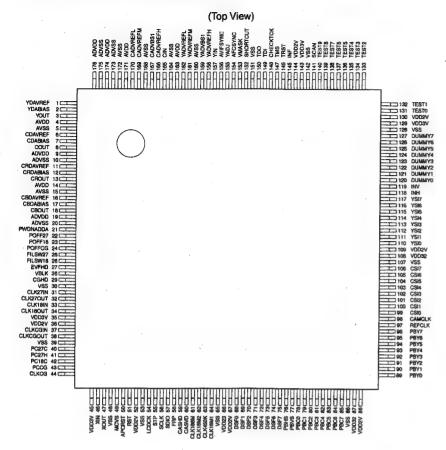


ŌĒ1	OE1 OE2		B6 - B10
L	Ļ	A1 – A5	A6 - A10
L	н .	A1 – A5	z
Н	L	z	A6 – A10
н	Н	z	z

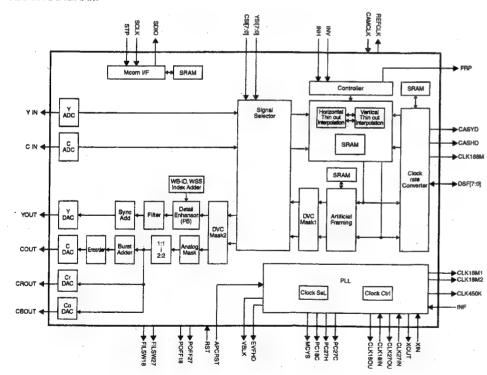
- H: High Level L: Low Level X: Don't Care
- Z : High Impedance



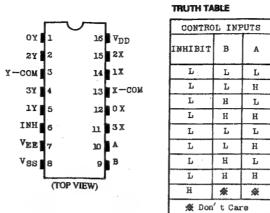
■ T9P90EF [TOSHIBA] (A/D and D/A Converter for Video Signal)



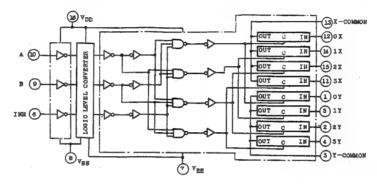
BLOCK DIAGRAM



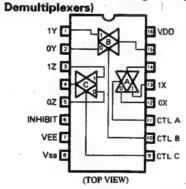
■ TC4052BF-X [TOSHIBA] (Dual 4 Channel Analog Multiplexers/Demultiplexers)



LOGIC DIAGRAM



TC4053BFT-X [TOSHIBA] (Dual 2 Channel Analog Multiplexers/



TRUTH TABLE

co	NTRO	"ON" CHANNEL		
INHIBIT	С	8	A	4053BP 4053BF
L	L	L	L	0X, 0Y, 0Z
Ĺ	L	L	Н	1X, 0Y,0Z
L	L	Н	L	0X, 1Y, 0Z
L	L	Н	н	1X, 1Y, 0Z
L	Н	L	L	0X, 0Y, 1Z
L	·H	Ĺ	н	1X, 0Y, 1Z
L	Н	Н	L	0X, 1Y, 1Z
L	Н	Н	н	1X, 1Y, 1Z
Н	*	•	•	NOTE
* Don	't Can	e.		

■ TC4W53F-X [TOSHIBA]

(2-Channel Multiplexer)

"ON" CHANNEL

TC4052BP TC4052BF

OX, OY

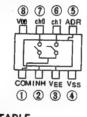
1X, 1Y

2X, 2Y

3X, 3Y

-

NONE

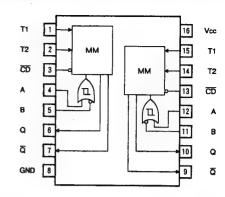


TRUE TA	ABLE	
CON	TROL JT	ON CHANNEL
INH ADR		
L	L	ch0
L	Н	ch1
н	*	NONE

^{*}Don't care

■ TC4W53FU-X [TOSHIBA] (Refer to TC4W53F-X)

TC74HC4538AFS-X [TOSHIBA] (Dual Retriggerable Monostable Multivibrator)

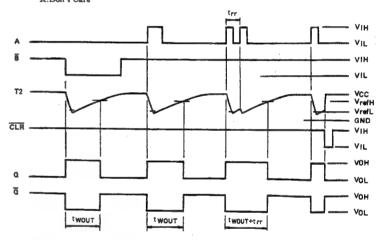


TOP VIEW

TRUE Table

	INPUT			PUT		
A	B	ĈĎ	Q	Q	NOTE	
	Н	H		7	OUTPUT ENABLE	
х	L	H	L	. н	INHIBIT	
Н	X	H	L	H	INHIBIT	
L .	TV_	H		7	OUTPUT ENABLE	
X.	Х	L	L	H	INHIBIT	

X:Don't Care



■ TC74VHC125FT-X [TOSHIBA] (Refer to SN74LV125APW-X,)

■ TC4094BF-X [TOSHIBA] (8 Stage Bus Compatible Shift/Store Register)

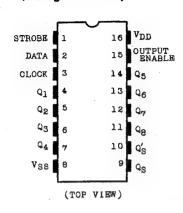
BLOCK DIAGRAM

DATA O

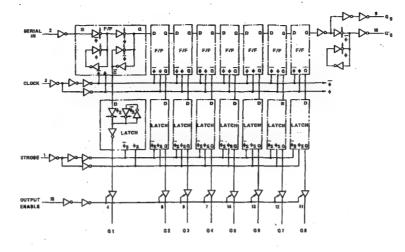
CLOCK O

STROBE C

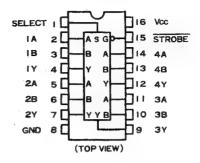
OUTPUT -



		,		PO		SO		
CL	OE	ST	D	Ql	Qn	QS	₫ _S	
5	H	н	L	L	Q_n-1	Q ₇	NC	
5	Н	Н	H	H	Q_n-1	Q ₇	NC	
5	H	L	*	NC	NC	Q7	NC	
5	L	*	*	HZ	HZ	Qy	NC	
L	H	*	*	NC	NC	NC	QS	
L	L	*	*	HZ	HZ	NC	QS	
CL=Clock								
D =	Da ta				lmg	pedan	ce	
PO=Parallel Outputs								
SO=Serial Output								

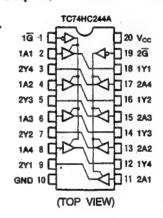


■ TC74VHC157FT-X [TOSHIBA] (Quad 2-Line to 1-Line Data Selectors/Multiplexers,NON-Inverted Data Outputs)



	,	HUE Tat	He	
	OUTPUT			
STROBE	SELECT	Α	В	Y
н	x	х	х	L
L	L	L	х	L
L	L	Н	x	н
L	н	х	L	L
L	Н	х	Н	Н
	X:DON	T CARE		

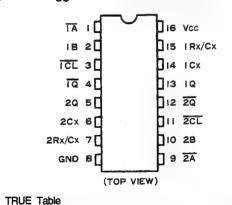
■ TC74VHC244FT-X [TOSHIBA] (Octal Buffers AND Line Drivers With NON-Inverted 3-State Outputs)



RUE Table						
UTS	OUTPUTS					
An	Ϋ́n					
L	L					
н	Н					
X	Z					
	UTS An L					

X Don't Care
Z High Impedance

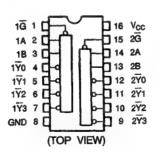
■ TC74VHC123AFT-X [TOSHIBA] (Dual Retriggerable Monostable Multivibrators)



OUTPUTS INPUTS OL Q Q В T OUTPUT ENABLE Ŧ JL Н Н Н INHIBIT Х Н L Н Н Н INHIBIT Х T OUTPUT ENABLE 工 OUTPUT ENABLE Н ______ ┰ H INHIBIT

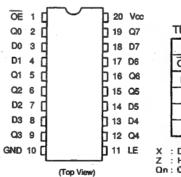
X:DON'T CARE

■ TC74VHC139FT-X [TOSHIBA]
(Dual 2-Line to 4-Lile Decoders/Demultiplexers)

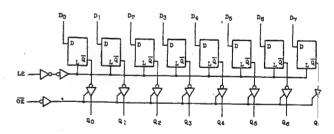


INI	PUTS	S	(DUT			
ENABLE	NABLE SELECT			- 71	- Y2	- Y3	SELECTER
G	В	Α	Ϋ́O	"	14	13	
н	Х	Х	Н	н	Н	Н	NONE
L	L	L	L	н	Н	Н	YO
L	L	н	Н	L	Н	н	<u> </u>
L	н	L	Н	н	L	Н	Y2
L	Н	н	н	н	Н	L	Y3

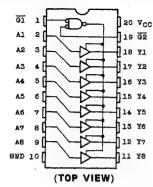
■ TC74VHC373FT-X [TOSHIBA] (Octal D-Type Latch With NON-Inverted 3-State Output)



TRU	TRUE Table							
. 11	NPUT	S	OUTPUTS					
ŌĒ	LE	D	0017015					
Н	X	Х	Z					
L	L	Х	Qn					
L	Н	L	L					
L	Н	Н	Н					
. Don	's Care							



TC74VHCT541AFTX [TOSHIBA] (Octal Bus Buffer With Inverted 3-State Outputs)

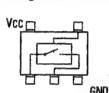


TRUE Table

	INPUT				
G1	Ğ2	Α.	Υ		
L	L	Н	Н		
L	L	L	L		
Н	X	X	Z		
X	l H	X] z		

TC7S66FU-X [TOSHIBA]

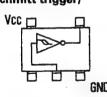
(Analog SW)



TRUE Table

Α	В	Х					
L	L	L					
L	Н	L					
Н	L	L					
Ш	Н	ш					

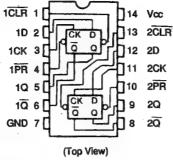
TC7S14FU-X [TOSHIBA] (Schmitt trigger)



■ TC7SH08F-X [TOSHIBA] (Refer to TC7S08FU-X.)

■ TC7SH08FU-X [TOSHIBA] (Refer to TC7S08FU-X.)

■ TC74VHC74FT-X [TOSHIBA] (Dual D-Type Positive-EDGE-Triggered Flip-Flops With Preset AND Clear)

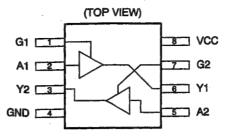


TRUE Table

11102	, 00010						
	INP	UTS		OUTPUTS		FUNCTION	
CLR	PR	D	CK	Q	Q	FUNCTION	
L	Н	Х	Х	L	Н	CLEAR	
H	L	X	Х	Н	Ĺ	PRESET	
L	اـ	Х	Х	Н	Н	_	
Н	H	٦	1	L	Н		
Н	Н	Н	1	H	L	_	
Н	Н	Х	Ę	Qn	\overline{Q}_n	NO CHANGE	

X : Don't care

■ TC7W126FU-X [TOSHIBA] (Dual Bus Buffer)



Truth Table

OUTPUTS
Υ
Z
L
н

X : Don't Cate Z : High Impedance

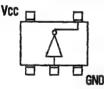
TC7S08FU-X [TOSHIBA] (2 Input Single AND Gate)



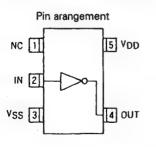
Α	В	Х
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

(Single Inverter Gate)

■ TC7SET04FU-X [TOSHIBA]

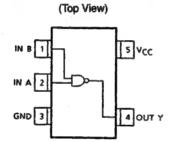


TC7SHU04FU-X [TOSHIBA] (Inverter)



■ TC7SH04FU-X [TOSHIBA] (Refer to TC7SHU04FU-X.)

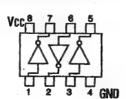
■ TC7SH00F-X [TOSHIBA] (2 Input NAND Gate)



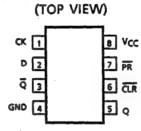
TRUE Table

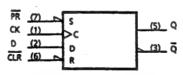
Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	1

■ TC7W04FU-X [TOSHIBA] (Triple Inverter Gate)



TC7W74FU-X [TOSHIBA] (D-Q Flip-Flop)



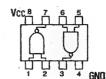


TRUE Table

FUNCTION	OUTPUTS			πs	INPL	
FUNCTION	Q	Q	CK	D	PR	CLR
CLEAR	Н	L	×	×	Н	L
PRESET	L	Н	×	×	L	Н
	Н	Н	×	×	L	L
_	·H	L	1	L	н	Н
_	L	Н		Н	Н	Н
NO CHANG	Qn	Qn		×	Н	Н

x : Don't care

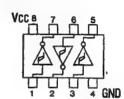
TC7W00FU-X [TOSHIBA] (2 Input Dual NAND Gate)



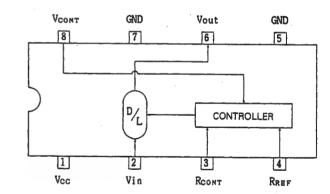
TRUE Table

Α	В	Х
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

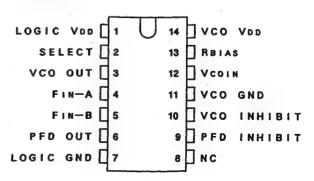
TC7W14FU-X [TOSHIBA] (Schmitt Trigger Triple Inverte Gate)

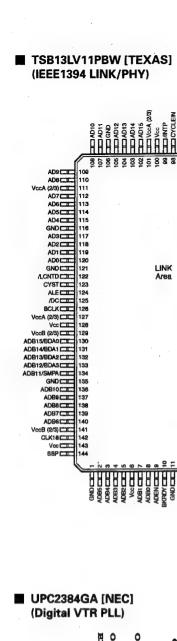


■ TK16031AMTL [TOKO] (Analog Delay line)

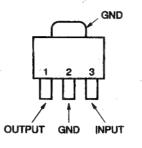


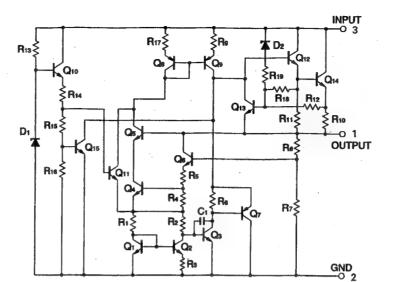
■ TLC2932IPW-X [TEXAS] (PLL)



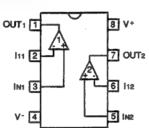


■ UPC78L05T-X [NEC] (Regulator)

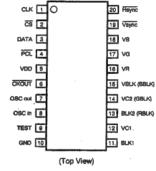


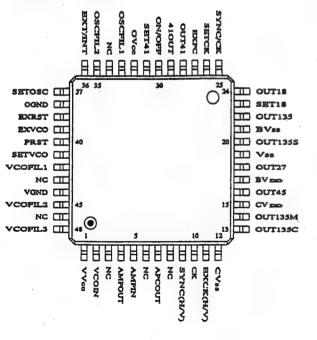


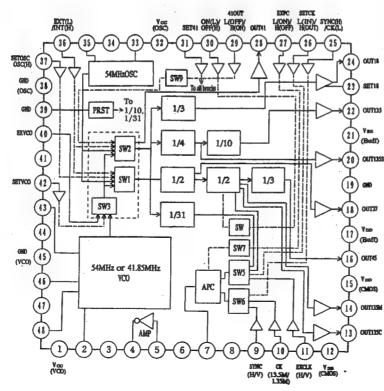
■ UPC812G2-X [NEC] (Op.Amp.)

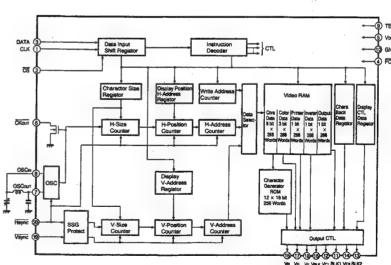


■ UPD6461GS-101 [NEC] (On Screen Charactor Display)





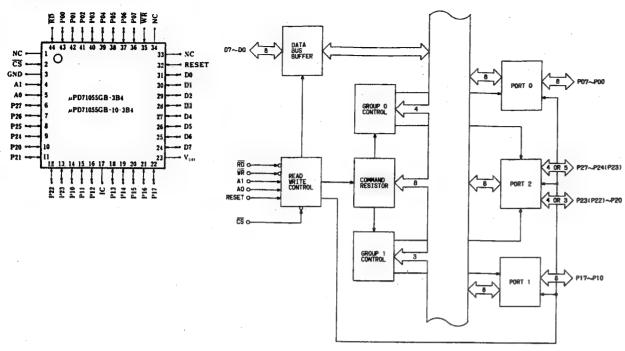


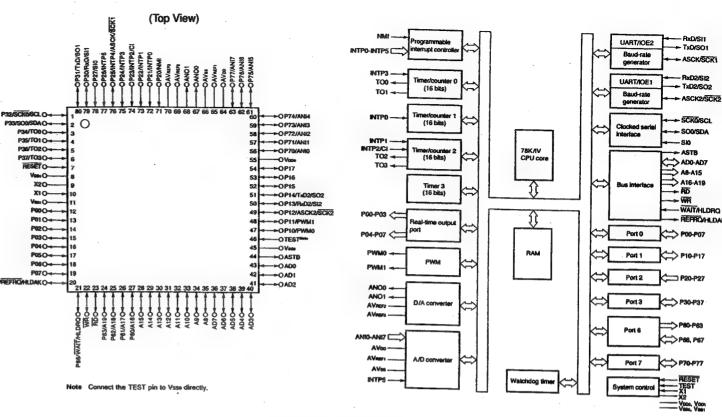


4-77

■ UPD71055GB-10 [NEC] (Parallel Input/Output Port)

■ UPD784031GK-BE9 [NEC] (16bit Single Chip Micro Computer)





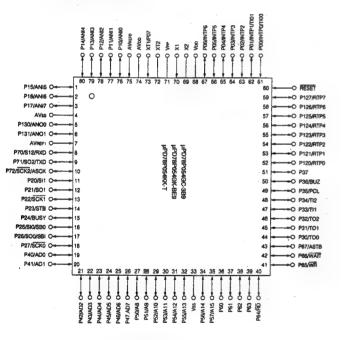
--- RxD2/S12 --- TxD2/SO2

► SOO/SDA

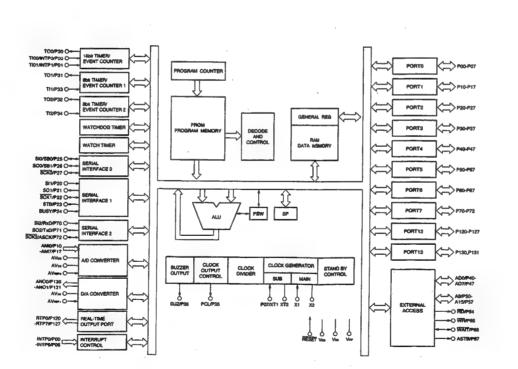
> A16-A19 → FID

REFROMEDA

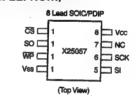
■ UPD71055GB-10 [NEC] (Parallel Input/Output Port)

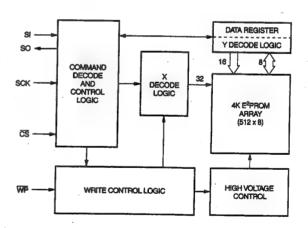




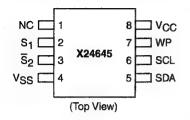


■ X25057M8-2.7-X [XICOR] (SPI Serial EEPROM)



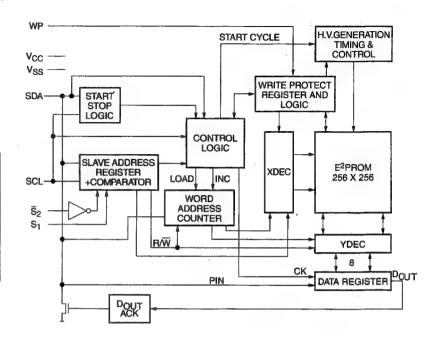


■ X24645S8-2.7-X [XICOR] (8K x 8bit CMOS Serial EEPROM)

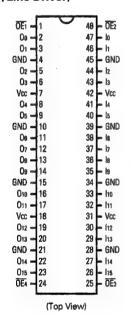


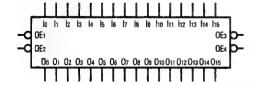
PIN NAMES

Symbol	Description	
S _{1,} S ₂	Device Select Inputs	
SDA	Serial Data	
SCL	Serial Clock	
WP	Write Protect	
V _{SS}	Ground	
Vcc	Supply Voltage	
NC	No Connect	

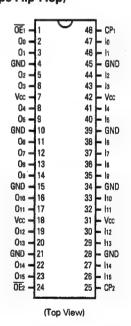


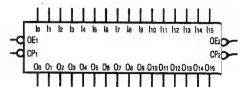
■ 74LCX16244MTD-X [NATIONAL SEMI CONDUCTOR] (16 bit Buffer/Line Driver)



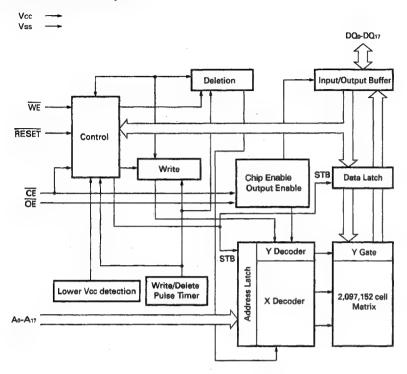


■ 74LCX16374MTD-X [NATIONAL SEMI CONDUCTOR] (16 bit D-Type Flip-Flop)





■ PLSL1069-V1-** [FUJITSU] (2M Bit Flash Memory)



SECTION 5 EXPLODED VIEW AND PARTS LIST

SAFETY PRECATION

Parts identified by the Δ symbol are critical for safety. Replace only with specified parts numbers.

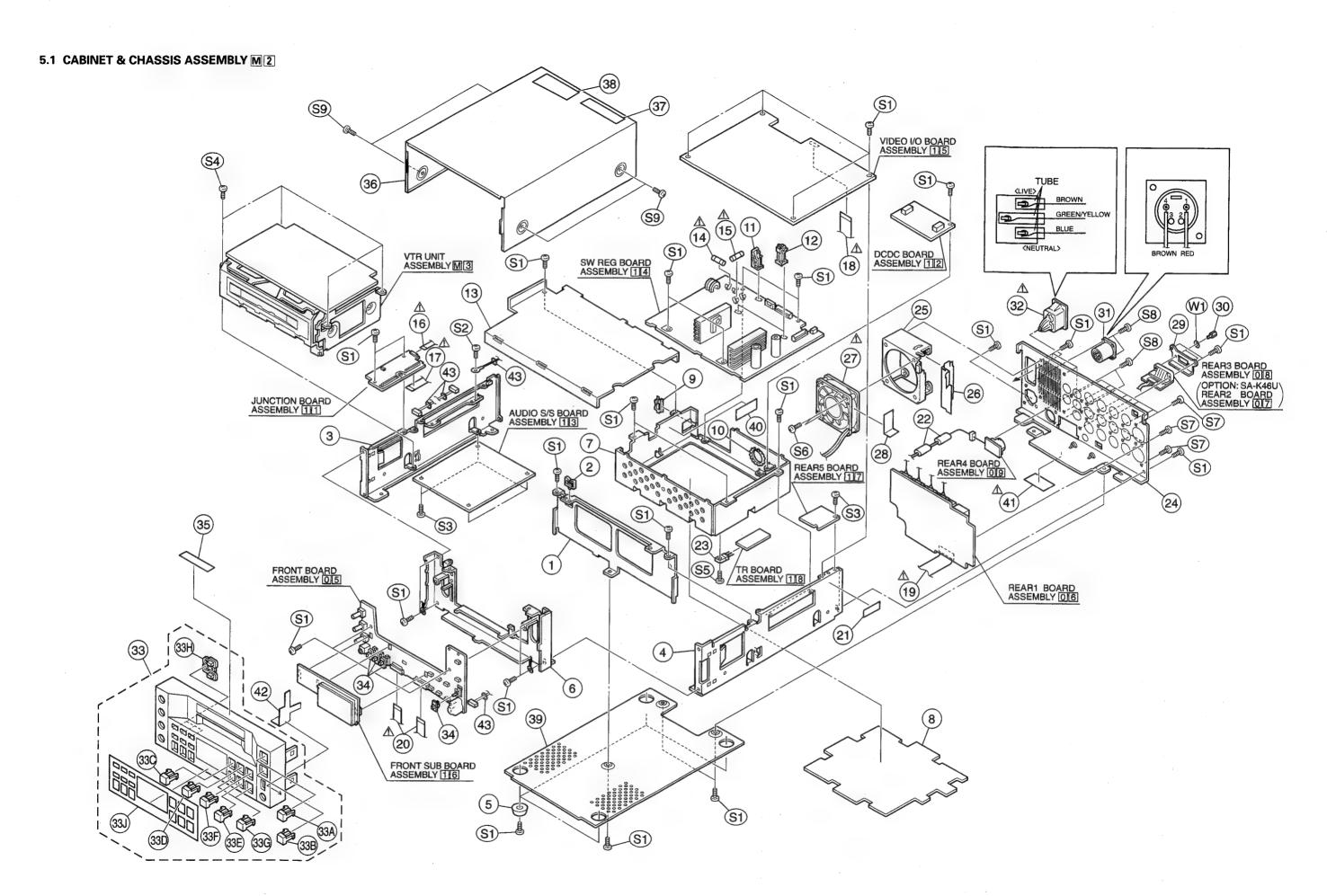
NOTE

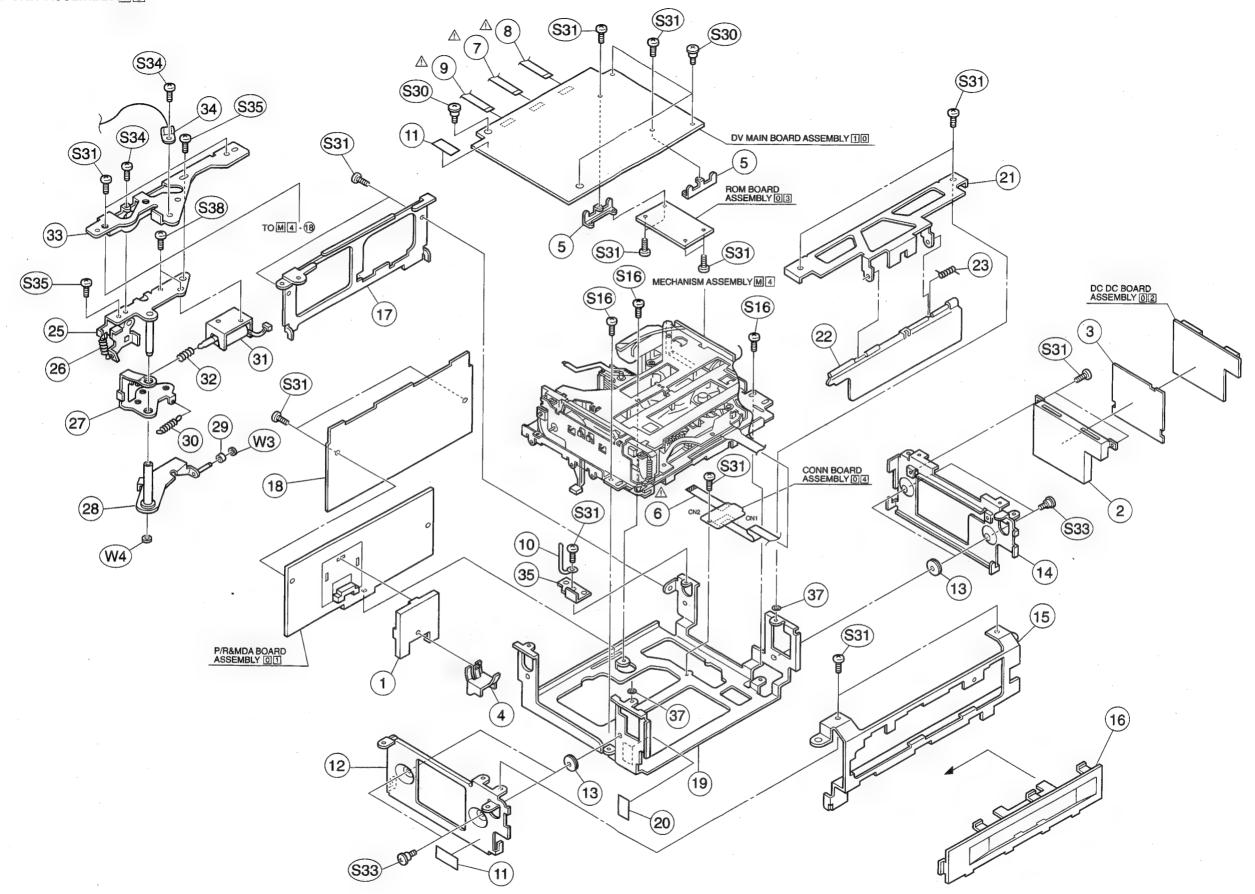
Parts not denoted by parts numbers are not supplied by JVC.

■ CABINET & CHASSIS ASSEMBLY PARTS LIST M2

(m. et	2 84	M		$\neg \vdash$
IIVI	ZIIVI	IIIVIII	11 - 43	ll

	nbol lo.	Part No.	Part Name	Description
	1 PRD20686 2 PEME0784 3 PRD20687 4 PRD20688 5 QZF2008-002		CENTER FRAME WIRE HOLDER SIDE COVER(L) SIDE COVER(R) FOOT	
	6 7 8 9 10	PRD20684-01-02 PRD20685 PRD31441 SS49841-001 PU43172-9-055	FRONT FRAME SHIELD CASE(REG) INSULATOR E.SADDLE NYLON GROMMET	
Δ	11 12 13 14	PGZ00605-08 PGZ00606-08 PRD20704 QMF51U1-1R25-S QMF51E2-1R25-S	BOARD SPACER BOARD HOLDER S.COVER(REG) FUSE FUSE	1.25A/125V (U) 1.25A/250V (E)
A A A	15 16 17 18	QMF51U1-3R15-S QMF51E2-3R15-S SCV2803-1818B SCV2803-2234B SCV2803-2411B	FUSE FUSE FFC WIRE FFC WIRE FFC WIRE	3.15A/125V (U) T3.15A/250V (E) JUNC18-VID18 JUNC10-ASS110 VID11-ASS502
A	19 20 21 22 23	PGW0206-090160 PGZ02640-2034B PRD44925 QQR0490-001 2SD1266A/QP/	FFC WIRE SHIELD FFC LABEL FILTER SI.TRANSISTOR	R1 13-ASS504 FRONT1-ASS101 MATSUSHITA
Δ	24 25 26 27	PRD20692-05 PRD20692-04 PRD31420 PRD45265 PGZ02636-01-01	REAR COVER REAR COVER BRACKET(FAN) DUCT(FAN) FAN MOTOR	(U) (E)
	28 29 30	PRD45290 PRD45260 PGZ01821 PGZ01821-02 QNZ0218-001	SPACER BRACKET(CONN) SCREW SCREW CONNECTOR	(E) (U)
Δ	32 33 33A 33B	QNC0055-001 PRD10422-01-03 PRD10422-01-03 PRD31415 PRD31415-02	AC INLET FRONT PANEL ASSY FRONT PANEL ASSY BUTTON BUTTON	(U) (E) OPERATE EJECT
	33F	PRD31416 PRD31416-02 PRD31416-03 PRD31416-04 PRD31416-05	BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON	REC PLAY STOP PAUSE FF/REW
	33H 33J 34 35 36	PRD31417 PRD31407 PRD45264 PRD45306-02 PRD20690	BUTTON PLATE(OPE) KNOB(OPE) LABEL(CAUTION) TOP COVER	
Δ	37 38 39 40 41	PRD43663-02-03 PRD44987-04 PRD20689 PRD44823	FCC S.LABEL LABEL BOTTOM COVER CAUTION LABEL RATING LABEL	(U) (U)
	42 43 S1 S2 S3	PRD45305 PU58903 QYSDST3006Z QYSPSPD4006N PRD45286	SHIELD PLATE FERRITE CORE SCREW SCREW SCREW	M3 × 6 M4 × 6
	\$4 \$5 \$6 \$7 \$8	QYSDST2608Z QYSDST3008Z QYSBST3020Z QYSDSF3006Z QYSPSP2605N	SCREW SCREW SCREW SCREW SCREW	M2.6 x 8 M3 x 8 M3 x 20 M3 x 6 M2.6 x 5
	S9 W1	QYSDSTY3008X QYWLS275306Z	SCREW L.WASHER	M3 x 8



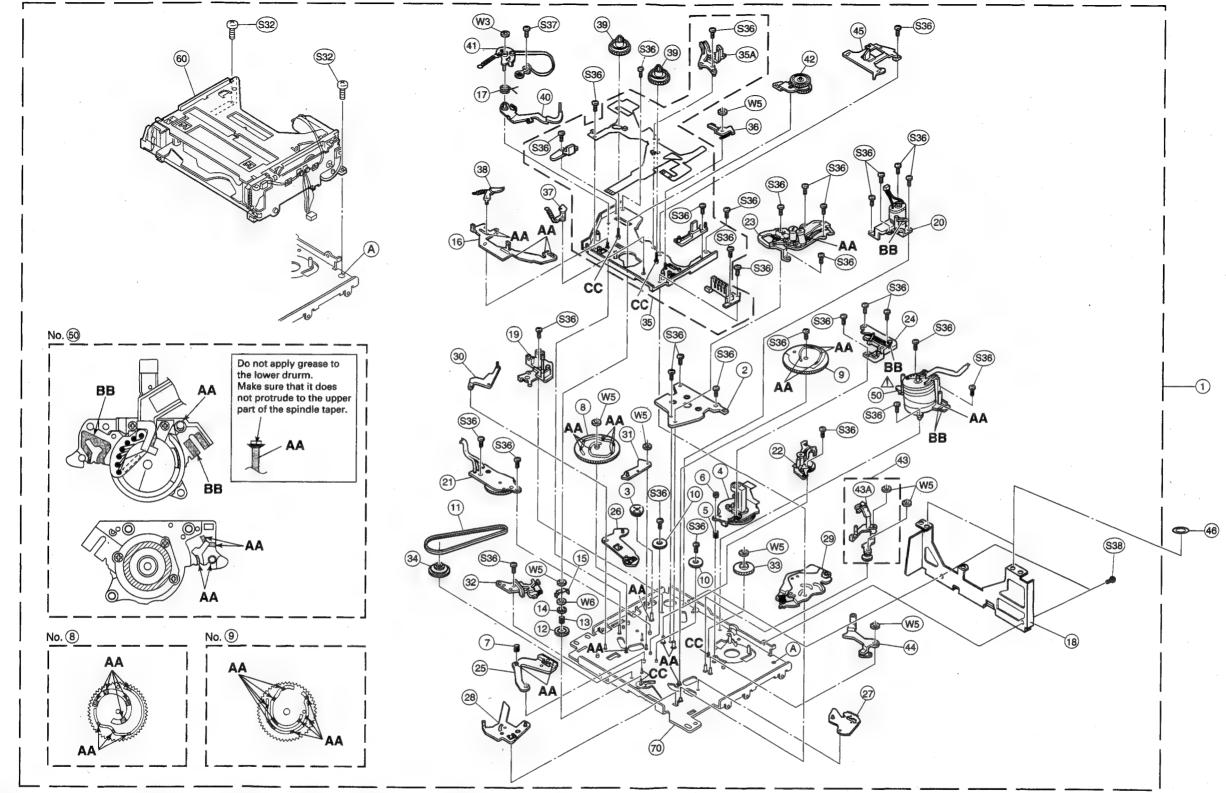


■ DVC UNIT ASSEMBLY PARTS LIST M3

			$\overline{}$	
19.8(1.2)	MM	1 II I	1 11 1	
INH: 5	HAN BAS	1 11 1	1 11 1	

Symbol No.	Part No.	Part Name	Description
1 2 3 4 5	PRD31397 PRD31398 PRD45263 PRD45247 PRD45259	SHIELD CASE(P/R) SHIELD CASE(DC) INSULATOR EARTH PLATE P.W.B.BRACKET	
Δ 6 Δ 7 Δ 8 Δ 9	SCV2803-1810B SCV2803-2003B SCV2803-2003B SCV2803-1003B PU49485-3	FFC WIRE FFC WIRE FFC WIRE FFC WIRE WIRE CLAMP	MAIN401-JUNC MAIN 402-PR606 MAIN 501-PR901 MAIN 108-PR608
11 12 13 14 15	PRD31393 PGZ02634 PRD31394 PRD31395	LABEL SIDE COVER(L) DAMPER SIDE COVER(R) FRONT COVER	IEEE1394 ID
16 17 18 19	PRD31409 PRD31396 PRD45262 PRD20680 PRD30030-127	CASSETTE SLOT REAR COVER INSULATOR BASE FRAME PAD	
21 22 23 25 26	PRD31390-01-01 PRD31391 LP40360-001A PRD31399A PRD30024-107	FRONT FRAME C.H.DOOR TORSION SPRING CLEANER BKT.ASSEMBLY TENSION SPRING	
27 28 29 30 31	PRD31401 PRD31402A-01 LY41249-001A PRD30024-107 PGZ02629	DRIVE ARM CLEANER ARM ASSEMBLY CLEANER ASSEMBLY TENSION SPRING DC-SOLENOID	
34	PRD30023-65 PRD31392 QSD0002-001 PRD45284 PRD30029-05	COMPRESS SPRING REAR FRAME DEW SENSOR BRACKET(C.H.) WASHER	
S31	PRD44099 QYSDSP2003Z PRD45246	SCREW SCREW SCREW SCREW SCREW	M2.6 x 4 M2 x 3 M2 x 3
S38 S41 W3	QYSDSP2006Z QYSDSP2002N QYSDSF2005Z YQ44246-3 PQM30017-27	SCREW SCREW SCREW SLIT WASHER SLIT WASHER	M2 x 6 M2 x 2 M2 x 5

5.3 MECHANISM ASSEMBLY M 4



Classifi- cation	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Grease	RX-410R	BB
Oil	YTU94027	CC

NOTES: • This section indicates that the grease and oil are to be applied on locations marked with AA, BB and CC.

During checking and servicing, check if grease has been applied on the locations marked with AA, BB and oil on the locations marked with CC.

 Apply also grease and oil on some locations in the main cam gear and the cam groove at the rear side of the sub cam gear.

■ MECHANISM ASSEMBLY PARTS LIST M 4

ľ	VI 4	M	M	\Box	П	\Box	
						-	

Symbol No.	Part No.	Part Name	Description
1 2 3 4 5	PGS30534B-01 LY30358-001A LY30343-001A QAR0012-002 LY30002-003A	MECHA ASSEMBLY DRUM BASE DECK WORM WHEEL 2 CAPSTAN MOTOR COMPRES.SPRING	
6 7 8 9	LY41390-001A LY40224-001A LY10060-003A LY20102-001A YQ44560-1-2	ADJUST NUT COLLAR MAIN CAM SUB CAM CONNECT GEAR 2	
11 12 13 14 15	LY40241-001A LY40246-001A LY30002-009A LY40247-001A LY40248-001A	TIMING BELT C.LOCK GEAR(1) COMPRES.SPRING C.LOCK GEAR(2) PUSH PLATE	
17	PRD31418-01-03 LY40237-001C	CONTROL PLATE TOR.SPRING A.H.C.FRAME ENT.G.BASE ASSEMBLY MOTOR BKT.ASSEMBLY	
21 22 23 24 25	YQ31873C LY20097-001B LY30345-001A	ROTARY EN.ASSEMBLY G.RAIL(S) ASSEMBLY G.RAIL(T) ASSEMBLY M.CATCHER ASSEMBLY ARM GEAR 1 ASSEMBLY	
26 27 28 29 30	LY40279-001A LY40228-001A LY30347-001A	CENT.ARM ASSEMBLY ARM GEAR 2 ASSEMBLY C.LOCK LEVER ASSEMBLY CHARGE ARM ASSEMBLY T.CTL.ARM ASSEMBLY	
31 32 33 34 35	LY40242-001C YQ43931A LY40239-003A	B.CTL.ARM ASSEMBLY BASE PLATE ASSEMBLY R.D.PULLEY ASSEMBLY CENT.GEAR ASSEMBLY S.DECK ASSEMBLY(G)	
35A 36 37 38 39	LY20108-001B LY40257-001A LY40259-001A	LED PRISM SUB BRAKE ASSEMBLY M.BRAKE(T) ASSEMBLY M.BRAKE(S) ASSEMBLY REEL DISK ASSEMBLY	
41 42 43	LY30370-002A	TENSION ARM SA. B.ARM PLATE SA. SWING ARM ASSEMBLY EXIT G.ARM ASSEMBLY CLEAN.ARM ASSEMBLY	
44 45 46 △ 50	LY40280-003A PRD45341 YDV2093B	P.R.ARM ASSEMBLY REEL COVER ASSEMBLY SPACER DRUM ASSEMBLY C.HOUSING ASSEMBLY	
S32 S36 S37	LY10062-001B QYSDSP2005Z YQ43893 YQ43893-7 QYSDSP2002N	MAIN DECK ASSEMBLY SCREW SCREW SCREW SCREW	M2 x 5 M1.4 x 2 M1.4 x 2 M2 x 2
W5	YQ44246-3 YQ44246 YQ43933-2	SLIT WASHER SLIT WASHER WASHER	

SECTION 6 ELECTRICAL PARTS LIST

SAFETY PRECAUTION:

Parts identified by the \triangle symbol are critical for safety. Replace only with specified parts numbers. For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:

All resistance values are in ohms (Ω). k expresses kilo-ohm (1 000 ohms, k Ω). M expresses mega-ohm (106 ohms, M Ω).

In the "Parts Name" column:

CAR.RESISTOR : Carbon Resistor

C.M.F.RESISTOR: Constant Metalized Film Resistor

COMP.RESISTOR: Composition Resistor
FUSI.RESISTOR: Fusible Resistor
M.F.RESISTOR: Metal Film Resistor
M.G.RESISTOR: Metal Graze Resistor
M.P.RESISTOR: Metal Plate Resistor

O.M.F.RESISTOR: Oxide Metalized Film Resistor

TRIM.RESISTOR: Trimerer Resistor

U.F.RESISTOR : Non-inflammable Resistor

VAL.RESISTOR: Valiable Resistor
W.W.RESISTOR: Wire Wound Resistor

CAPACITORS

In the "Description" column:

All capacitance values are in microfarad (μF) unless otherwise indicated.

p expresses picofarad (10⁻¹² farad,pF).

In the "Parts Name" column:

CER.CAPACITOR : Ceramic Capacitor
E.CAPACITOR : Electrolytic Capacitor
FILM CAPACITOR : Film Capacitor

M.F.CAPACITOR : Metalized Film Capacitor

MICA CAPACITOR: Mica Capacitor

MPP CAPACITOR: Metalized PolyPropylene Capacitor MPPS CAPACITOR: Metalized PolyPhenylene Sulfied film

Capacitor

M.M.CAPACITOR : Metalized Mylar Capacitor

MYLAR CAPACITOR: Mylar Capacitor

N.P.CAPACITOR : Non-Poler electrolytic Capacitor

P.P.CAPACITOR : PolyPropylene Capacitor

PPS CAPACITOR : PolyPhenylene Sulfied film Capacitor P.S.CAPACITOR : PolyStyrene Capacitor

TAN.CAPACITOR: Polystyrene Capacitor
TRIM.CAPACITOR: Trimer Capacitor
VAL.CAPACITOR: Valiable Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U MODEL while (E) is for the E MODEL.

Symbol No.	Part No.	Part Name	Description		
IC1	SCV1585-064	I.C.(M)	JVC	(U)	←for U MO
	SCV1585-067	I.C.(M)	JVC	(E)	← for E MOI

6.1 P/R & MDA BOARD ASSEMBLY PARTS LIST 0 1 SLK2088-01-01A

Symbo	lo	Part No.	Part Name	Descrip	tion
IC60 IC60 IC60 IC90	2 E	BA6417F-X BA6254FS-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M)	ROHM ROHM ROHM MATSUSHITA	
Q60 Q60; Q60; Q60; Q60; Q60; Q90; Q90; Q90	2 2 3 2 4 2 7 5 8 2 3 2 5 2 6 2	2SB1302/ST/-X 2SB1302/ST/-X 2SB1302/ST/-X DTC144EUA-X 2SB1302/ST/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM SANYO SANYO SANYO ROHM SANYO NEC MATSUSHITA MEC	
D60 D60 D60	3 [DAP202U-X DAP202U-X MA736-X	DIODE DIODE DIODE	ROHM ROHM MATSUSHITA	
R60 R60 R60 R60 R60 R60 R60 R61 R61	2 1 1 5 6 8 9 0	NRSA63J-681X NRSA63J-124X NRSA63J-472X NRSA63J-472X NRSA63J-223X NRV142F-R22X NRS12BJ-1R0W NRS12BJ-1R0W NRS12BJ-1R0W NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR C.M.E.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	680 120k 4.7k 100k 22k 0.22 1 1 1k 1k	1/16W 1/16W 1/16W 1/16W 1/16W 1/4W 1/2W 1/2W 1/2W 1/16W
R61 R61 R61 R61 R61 R61 R61 R62 R62	3 4 5 6 7 8 9	NRSA63J-274X NRSA63J-272X NRSA63J-154X NRSA63J-474X NRVA63D-202X NRSA63J-563X NRSA63J-203X NRSA63J-393X NRSA63J-511X NRSA63J-511X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR C.M.F.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	270k 2.7k 150k 470k 2k 56k 20k 39k 510	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R62 R62 R63 R63 R63 R63 R64 R64	28 29 30 31 34 35 36 42	NRSA63J-511X NRSA63J-511X NRSA63J-105X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-103X NRSA63J-473X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	510 510 1M 0 0 0 10k 47k 0 10k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R64 R64 R65 R65 R65 R66 R66 R66	19 50 52 57 58 51 52 53	NRSA63J-393X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-152X NRSA63J-472X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	39k 0 0 0 1.5k 4.7k 0 0 1.5k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R90 R90 R90 R90 R90 R9 R90 R90 R90	05 06 07 09 11 12 13	NRSA63J-103X NRSA63J-152X NRSA63J-272X NRSA63J-100X NRSA63J-0R0X NRSA63J-152X NRSA63J-123X NRSA63J-123X NRSA63J-680X NRSA63J-471X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1.5k 2.7k 10 0 1.5k 12k 68 470 10k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R9 R9		NRSA63J-271X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	270 1k	1/16W 1/16W

On mark and	·			
Symbol No.	Part No.	Part Name	Description	
R921 R922 R923 R924 R925 R926 R927 R928	NRSA63J-102X NRSA63J-221X NRSA63J-221X NRSA63J-102X NRSA63J-680X NRSA63J-123X NRSA63J-152X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1/16 220 1/16 220 1/16 1k 1/16 68 1/16 12k 1/16 1.5k 1/16 0 1/16	W W W W W
R932	NRSA63J-0R0X	M.G.RESISTOR	0 1/16	W
C601 C602 C603 C605 C606 C607 C608 C609 C610	NCB31HK-103X NCB41CM-106X NBE21AM-106X NCB31CK-104X NCB31HK-152X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	10 11 10 11 10 11 15 15 15 15 15 15 15 15 15 15 15 15	0V 6V 0V 6V 0V 0V 0V 0V 0V
C612 C613 C614 C615 C616 C617 C618 C619 C620 C621	NCB31HK-103X NCB31HK-103X NBE71VM-106X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31EK-223X NCB31EK-223X NCB31EK-223X NCB31EK-223X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 5 10 3 0.1 1 0.1 1 0.1 1 0.01 1 0.0022 2 0.0022 2 0.0022 2	0V 0V 5V 6V 6V 5V 5V 5V 5V
C622 C623 C625 C626 C627 C628 C631 C632 C635	NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31EK-223X NCB31CK-473X NCB21EK-104X NCB31CK-104X NCB31CK-104X NBE51CM-226X NBE71VM-106X NCB41CM-106X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR	0.1 1 1 0.022 2 2 0.047 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6V 6V 5V 6V 5V 6V 6V 6V 6V
C637 C639 C640 C641 C644 C646 C647 C648 C649 C650	NCB41CM-106X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31EK-104X NCB31CK-104X NCB31CK-104X NCB21CK-224X NCB21CK-224X NCB21CK-224X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 5 0.01 5 0.01 5 0.01 5 0.1 2 0.1 1 0.1 1 0.22 1 0.22 1	6V 60V 60V 55V 6V 6V 6V 6V 6V
C651 C652 C653 C654 C901 C902 C903 C904 C905	NCB31HK-103X NBE71VM-106X NCF31CZ-334X NCF31CZ-334X NCB31HK-122X NCB21AK-105X NCB31HK-105X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HJ-470X	CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	10 3 0.33 1 1 200p 5 1 1 1 1 1000p 5 0.01 5 0.01 5 5 0.01	50V 55V 6V 6V 50V 50V 50V 50V 50V
C907 C909 C910 C911 C912 C913 C914 C915 C916 C917	NCB31HK-681X NCB31HK-152X NDC31HJ-330X NBE20JM-106X NCB31HK-103X NBE61AM-107X NCB31HK-103X NCB31HK-103X NDC31HJ-220X NBE71VM-106X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR	1500p 5 33p 5 10 6 0.01 5 100 0.01 5 0.01 5 22p 5	50V 50V 50V 50V 50V 50V 50V 50V 50V
C918 C919	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR		50V 50V

6.2 DCDC BOARD ASSEMBLY PARTS LIST 02 (DVC unit) SLK2088-02-01A

[P/R & MDA] Symbol Part No. **Part Name** Description Νo. NCB31HK-103X C920 CER.CAPACITOR 0.01 NCB31HK-103X C921 CER.CAPACITOR 0.01 50V CER.CAPACITOR CER.CAPACITOR NCB31HK-103X C922 0.01 50\/ C924 NCB31HK-103X 0.01 50V C927 NCB31HK-103X CER.CAPACITOR 0.01 50V C929 NRSA63J-0R0X M.G.RESISTOR 1/10W C930 NBE50JM-107X TAN.CAPACITOR 100 6.3V C931 NBE21AM-106X TAN.CAPACITOR 10 10V NBE21AM-106X TAN.CAPACITOR C932 10 10V CER.CAPACITOR C933 NCB31HK-103X 0.01 50V C934 NDC31HJ-330X CER.CAPACITOR 33p 50V C935 NBE20JM-106X TAN.CAPACITOR 6.3V 10 C936 NCB31HK-103X CER.CAPACITOR 0.01 50V CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR C938 NCB31HK-152X 1500p 50V NCB31HK-103X NCB31HK-103X C940 0.01 50V C943 0.01 50V L901 NQL044K-470X COIL 47uH COIL L902 NQL044K-221X 220uH L903 NQL044K-470X 47uH 22uH 22uH L904 NQL085J-220X NQL085J-220X 1.905 LC601 PGZ01972Z LC FILTER LC FILTER PGZ01972Z PGZ01972Z LC602 LC603 PGZ01972Z LC605 LC FILTER CN601 QGA1201F2-09X CONNECTOR 9PIN CN602 QGA1201C2-02X CONNECTOR 2PIN CN603 QGF0508F1-11X CN604 QGF0504C1-18X CN605 QGA1201F2-04X CONNECTOR 11PIN 18PIN CONNECTOR CONNECTOR 4PIN CN606 QGF0508F1-20X 20PIN CONNECTOR CN607 QGA1201C2-04X CONNECTOR 4PIN CN608 QGF0508F1-10X CONNECTOR 11PIN CN609 QGA1201F2-02X CONNECTOR 2PIN CN610 QGA2001F2-02X CONNECTOR 2PIN CN901 QGF0508F1-20X CN902 QGF0504C1-10X 20PIN CONNECTOR CONNECTOR 10PIN TP601 NNZO009-001X TEST POINT TP601-904

Symbol No.	Part No.	Part Name	Description
	D 4 0 7 0 0 1 0 1	10.00	20114
IC1	BA9738KV	I.C.(M)	ROHM
Q2 Q3 Q4 Q5 Q6 Q7 Q8	DTC144EUA-X 2SB1302/ST/-X 2SB1302/ST/-X 2SB1302/ST/-X 2SB1302/ST/-X 2SB1302/ST/-X 2SB1302/ST/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM SANYO SANYO SANYO SANYO SANYO SANYO
D1 D2 D3 D4 D5 D6	SFPB-72-W SFPB-72-W SFPB-72-W SFPB-72-W SFPB-72-W SFPB-72-W DAN202U-X	SB DIODE SB DIODE SB DIODE SB DIODE SB DIODE SB DIODE DIODE	SANKEN SANKEN SANKEN SANKEN SANKEN SANKEN ROHM
R1 R2 R3 R5 R6 R7 R8 R9 R10	NRSA63J-103X NRSA63J-103X NRSA63J-0R0X NRSA63J-272X NRSA63J-223X NRSA63J-682X NRSA63J-823X NRSA63J-223X NRSA63J-223X NRSA63J-102X NRSA63J-102X NRSA63J-122X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 10k 1/16W 0 1/16W 2.7k 1/16W 22k 1/16W 6.8k 1/16W 82k 1/16W 22k 1/16W 1k 1/16W 1k 1/16W
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23	NRSA63J-122X NRSA63J-223X NRSA63J-682X NRSA63J-823X NRSA63J-123X NRSA63J-223X NRSA63J-272X NRSA63D-243X NRSA63D-103X NRSA63D-153X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1.2k 1/16\V 22k 1/16\V 6.8k 1/16\V 82k 1/16\V 22k 1/16\V 22k 1/16\V 22k 1/16\V 22k 1/16\V 24k 1/16\V 24k 1/16\V 10k 1/16\V 10k 1/16\V 15k 1/16\V
R24 R25 R26 R27 R28 R29 R30 R31 R32 R33	NRSA63D-123X NRSA63J-223X NRSA63J-0R0X NRSA63J-0R0X NRSA63D-153X NRSA63D-103X NRSA63D-273X NRSA63D-222X NRSA63D-222X NRSA63D-103X NRSA63D-273X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	12k 1/16\V 22k 1/16\V 0 1/16\V 47k 1/16\V 15k 1/16\V 10k 1/16\V 8.2k 1/16\V 10k 1/16\V 8.2k 1/16\V 10k 1/16\V
R34 R35 R36 R37 R38 R39 R40 R41 R42 R43	NRSA63D-153X NRSA63D-103X NRSA63D-682X NRSA63J-472X NRSA63J-472X NRSA63J-103X NRSA63J-72X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	15k 1/16IV 10k 1/16IV 6.8k 1/16IV 4.7k 1/16IV 4.7k 1/16IV 4.7k 1/16IV 10k 1/16IV 10k 1/16IV 10k 1/16IV 10k 1/16IV 11k 1/16IV
R44 R45 R46 R47 R49 R50 R51 R52 R53 R54	NRSA63J-102X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-331X NRSA63J-103X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1/16\V 0 1/16\V 0 1/16\V 330 1/16\V 10k 1/16\V 0 1/16\V 0 1/16\V 10k 1/16\V 0 1/16\V 10k 1/16\V 10k 1/16\V 10k 1/16\V 10k 1/16\V
R55 R56 R58	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 1/16\\\\ 0 1/16\\\\\ 0 1/16\\\\\\

6.3 ROM BOARD ASSEMBLY PARTS LIST 03 SLK2088-03-N0D(U)

Symbol No.	Part No.	Part Name	Descri	ption
IC1	M27W102-80N6-0B M27W102-80N6-8B		MITSUBISHI MITSUBISHI	(U) (E)
SK1	NNV0012-040	IC SOCKET	FOR IC1	
IC2 IC3 IC4 IC5	74LCX16244MTD-X 74LCX16374MTD-X TC7W00FU-X TC7W04FU-X		NATIONAL SE NATIONAL SE TOSHIBA TOSHIBA	
R3 R4 R5 R6	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-473X NRSA63J-473X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 0 47k 47k	1/16W 1/16W 1/16W 1/16W
RA1 RA2 RA3 RA4	NRZ0015-473X NRZ0015-473X NRZ0015-473X NRZ0015-473X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47k 47k 47k 47k	
C1 C2 C3 C4 C5	NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 0.1 0.1 0.1 0.1	16V 16V 16V 16V 16V
CN1	QGB0801M2-26X	CONNECTOR	26PIN	
LA1 LA2 LA3 LA4	NRZ0038-0R0X NRZ0038-0R0X NRZ0038-0R0X NRZ0038-0R0X	RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY		

Symbol		Ph	T	-inti
No.	Part No.	Part Name	Desc	ription
C1	NCB21AK-105X	CER.CAPACITOR	1	10V
C2	NCB21AK-105X	CER.CAPACITOR	1	10V
C3	NCB21AK-105X	CER.CAPACITOR	1	10V
C4	NCB31HK-102X	CER, CAPACITOR	1000p	50V
C5	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C6	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C7	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C8	NCB21CK-224X	CER.CAPACITOR	0.22	16V
C9	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C10	NCB11AK-225X	CER.CAPACITOR	2.2	10V
C11	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C12	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C13	NCB31HK-331X	CER.CAPACITOR	330p	50V
C14	NDC31HJ-181X	CER.CAPACITOR	180p	50V
C15	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C16	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C17	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C18	NCB31HK-472X	CER.CAPACITOR	4700p	50V
		CER.CAPACITOR	0.01	50V
C19 C20	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01	50V
C21	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C21	NDC31HJ-101X	CER.CAPACITOR	1000p	50V
C23	NCB31HK-102X	CER.CAPACITOR	100p	50V
		CER.CAPACITOR	1000p	50V
C24	NCB31HK-102X		1000p	50V
C25	NCB31HK-102X	CER.CAPACITOR		
C26	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C27	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C28	NCB31HK-102X	CER.CAPACITOR	1000p.	50V
C30	NCB21AK-105X	CER.CAPACITOR	[1	10V
C31	NCB21AK-105X	CER.CAPACITOR	1	10V
C32	NCB11AK-475X	CER.CAPACITÓR	4.7	10V
C33	NCB21AK-105X	CER.CAPACITOR	1	10V
C34	NCB11AK-475X	CER.CAPACITOR	4.7	10V
C35	NCB21AK-105X	CER.CAPACITOR	1	10V
C36	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C37	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C38	NCB21AK-105X	CER, CAPACITOR	1	10V
C39	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C40	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C41	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C42	NCB21AK-105X	CER.CAPACITOR	1	10V
C43	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C44	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C45	NCB21AK-105X	CER.CAPACITOR	li	10V
C46	NCB10JK-106X	CER.CAPACITOR	10	6.3V
	NCB10JK-106X	CER.CAPACITOR	10	6.3V
C47		CER.CAPACITOR	10	6.3V
C48	NCB10JK-106X NCB41CM-106X	CER.CAPACITOR	10	16V
C49 C50	NCB41CM-106X	CER.CAPACITOR	10	16V
L1	NQL23CM-330X	COIL	33uH	
L2	NQL23CM-330X	COIL	33uH	
L3	NQL23CM-330X	COIL	33uH	
L4	NQL24CN-220X	COIL	22uH	
L5	NQL25CM-330X	COIL	33uH	
L6	NQL25CM-330X	COIL	33uH	
L7	NQL23CM-330X	COIL	33uH	
L8	NQL24CN-220X	COIL	22uH	
L9	NQL35BK-100X	COIL	10uH	
L10	NQL35BK-100X	COIL	10uH	
L11	NOL24CN-220X	COIL	22uH	
L12	NQL23CM-330X	COIL	33uH	
L12	NQL24CN-220X	COIL	22uH	
	NQL35BK-100X	COIL	10uH	
L14 L15	NQL35BK-100X NQL35BK-100X	COIL	10uH	÷
CN1	QGA1201F2-13X	CONNECTOR	13PIN	
CN2	QGA1201F2-09X	CONNECTOR	9PIN	
∆ CP11	ICP-S2.3TN ICP-S2.3TN	ICP ICP		
△ CP12				

6.4 CONN. BOARD ASSEMBLY PARTS LIST 0 4 SLK2088-04-00A 04

Symbol No.	Part No.	Part Name	Des	scription
R1	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
TH1	NAD0002-103X	THERMISTOR	10k	
CN1 CN2	QGF0508F2-15X QGF0508F2-18X	CONNECTOR CONNECTOR	15PIN 18PIN	

6.5 FRONT BOARD ASSEMBLY PARTS LIST 05

SLK2099-A0C 05

Symbol No.	Part No.	Part Name	Description
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	NJM319M-X TC74VHC123AFT-X NJM4556AM-X TC7W74FU-X TC7SH08FU-X TC7SU04FU-X TC7S66FU-X TC7W126FU-X TC7W126FU-X TC4053BFT-X S-8423LFS-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	JRC TOSHIBA JRC TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA SEIKO
IC11 IC12 IC13 IC14 IC15	S-81233SGUP-X TC7S14FU-X PLSL1070-V1 S-80840ANNP-W S-80840ANNP-W	I.C.(M) I.C.(M) I.C.(M) I.C.(M)	SEIKO TOSHIBA UPD78P054GC-3B9 SEIKO SEIKO
Q1 Q2 Q3 Q4 Q5 Q6 Q7	DTC124EUA-X DTC124EUA-X DTC124EUA-X DTC124EUA-X DTC124EUA-X DTA124EUA-X 2SC4097/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM
D1 D2 D3 D4 D5 D6 D7 D8 D9	DAN202U-X DAN202U-X MA3024-X MA3024-X MA3091/M/-X MA3091/M/-X MA3091/M/-X MA3091/M/-X MA3091/M/-X MA3091/M/-X MA3091/M/-X	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE	ROHM ROHM MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA
D11 D12	MA728-X MA3091/M/-X	DIODE ZENER DIODE	MATSUSHITA MATSUSHITA
LD1 LD2 LD3 LD4 LD5	SLB-25MG3F SLB-25MG3F SLB-25VR3F SLB-25MG3F SLB-25MG3F	L.E.D. L.E.D. L.E.D. L.E.D. L.E.D.	PAUSE PLAY REC FF REW
R1 R2 R3 R4 R5 R6 R7 R8 R9	NRSA63D-121X NRSA63D-121X NRSA63D-121X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-331X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	120 1/16W 120 1/16W 120 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W
R11 R12 R13 R14 R15 R16 R17 R18 R20 R21	NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W
R22 R23 R24 R25 R26 R27 R28 R29 R30	NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1/16W 1k 1/16W 1k 1/16W 1k 1/16W 1k 1/16W 1k 1/16W 100k 1/16W 1k 1/16W 1k 1/16W

Symbol	·	T	1	_
No.	Part No.	Part Name	Description	
R31	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R32	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R33	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R34	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R35	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R36	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R37	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R38	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R40	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R41 R42	NRSA63D-104X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR	100k 1/16W 1/16W	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
R43 R44	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R45	NRSA63D-104X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR	100k 1/16W	
R46	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R47	NRSA63D-104X	M.G.RESISTOR	100k 1/16W 100k 1/16W	
R48	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R49	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R50	NRSA63D-470X	M.G.RESISTOR	47 1/16W	
R51	NRSA63D-470X	M.G.RESISTOR	47 1/16W	
R52	NRSA63D-470X	M.G.RESISTOR	47 1/16W	
R53	NRSA63D-470X	M.G.RESISTOR	47 1/16W	
R54	NRSA63D-470X	M.G.RESISTOR	47 1/16W	
R55	NRSA63D-394X	M.G.RESISTOR	390k 1/16W	
R56	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R57 R58	NRSA63D-303X	M.G.RESISTOR	30k 1/16W	
R59	NRSA63D-223X NRSA63D-471X	M.G.RESISTOR M.G.RESISTOR	22k 1/16W 1470 1/16W	
R60	NRSA63D-103X	M.G.RESISTOR	1470 1/16W 110k 1/16W	
R61	NRSA63D-223X	M.G.RESISTOR	22k 1/16W	
R62	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R63	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R64	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R65	NRSA63D-103X	M.G.RESISTOR	10k 1/16W	
R66 R67	NRSA63D-302X NRSA63D-152X	M.G.RESISTOR M.G.RESISTOR	3k 1/16W 1.5k 1/16W	
R68	NRSA63D-102X	M.G.RESISTOR	1.5k 1/16W 1k 1/16W	
R69	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R70	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R71	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R72	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R73	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R74	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R75	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R76	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R77	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R78	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R79 R80	NRSA63D-103X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W 1/16W 1/16W	
R81	NRSA63D-181X	M.G.RESISTOR	180 1/16/V	
R82	NRSA63D-181X	M.G.RESISTOR	180 1/16W	
R83	NRSA63D-103X	M.G.RESISTOR	10k 1/16W	
R84	NRSA63D-224X	M.G.RESISTOR	220k 1/16\V	
R85	NRSA63D-224X	M.G.RESISTOR	220k 1/16W	
R86	NRSA63D-331X	M.G.RESISTOR	330 1/16W	
R87	NRSA63D-224X	M.G.RESISTOR	220k 1/16W	
R88 R89	NRSA63D-101X NRSA63D-334X	M.G.RESISTOR M.G.RESISTOR	100 1/16W	
R90	NRSA63D-104X	M.G.RESISTOR	330k 1/16W 100k 1/16W	
R91	NRSA63D-331X	M.G.RESISTOR	330 1/16W	
R92	NRSA63D-101X	M.G.RESISTOR	100 1/16W	
R93	NRSA63D-331X	M.G.RESISTOR	330 1/16W	
R94	NRSA63D-331X	M.G.RESISTOR	330 1/16W	
R95	NRSA63D-474X	M.G.RESISTOR	470k 1/16W	
R96	NRSA63D-823X	M.G.RESISTOR	1/16W	
R97 R98	NRSA63D-391X NRSA63J-333X	M.G.RESISTOR M.G.RESISTOR	390 1/16VJ 33k 1/16VJ	
R99	NRSA63D-823X	M.G.RESISTOR	33k	
R110	QRE141J-104Y	CAR.RESISTOR	100k 1/4V	
VR3 VR4	QVQ0264-B23 QVQ0264-B23	VAL.RESISTOR VAL.RESISTOR	CH1 REC LEVEL CH2 REC LEVEL	
V174	Q1 Q0204-D23	VAL. NESISTUR	CH2 REC LEVEL	

Symbol No.	Part No.	Part Name	Description
VR5	QVQ0264-B23	VAL.RESISTOR	PHONES
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10	NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31HK-331X NCB31HK-331X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 50V 1200p 50V
C11 C12 C13 C14 C15 C16 C17 C18 C19 C20	NBE21AM-106X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	10 10V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V
C21 C22 C23 C24 C25 C26 C27 C28 C29 C30	NDC31HJ-221X NDC31HJ-221X NBE21AM-106X NCB31CK-104X NBE21AM-106X NCB31CK-104X NBE21AM-106X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	220p 50V 220p 50V 10 10V 0.1 16V 10 10V 0.1 16V 10 10V 0.1 16V 0.1 16V 0.1 16V 0.1 16V
C31 C32 C33 C34 C35 C36 C37 C38 C39 C40	NCB31CK-104X NCB31CK-104X NCB41CM-106X NCB31CK-104X NCB31CK-104X NCB41CM-106X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB41CM-106X PGZ02341	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V 10 16V 0.1 16V 0.1 16V 10 16V 10 16V 0.1 16V 0.1 16V 0.1 16V TO 16V TO 16V TO 16V TO 16V
C41 C42 C43 C44 C45 C46 C47 C48 C49 C50	NCB41CM-106X NCB41CM-106X NCB41CM-106X NCF21CZ-105X NDC31HJ-180X NDC31HJ-150X NDC31HJ-150X NDC31HJ-150X NCB31CK-104X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	10 16V 10 16V 10 16V 1 16V 1 16V 18p 50V 15p 50V 15p 50V 15p 50V 0.1 16V
C51 C53 C54 C55 C56 C57 C58 C59 C60	NCB41CM-106X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31HK-103X NDC21HJ-101X NBE20GM-226X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR	10 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 50V 100p 50V
L1 L2 L3 L4 L5 L6 L7 L8	NQL114K-100X NQL114K-100X NQL114K-100X NQL114K-100X NQL114K-101X NQL024J-100X NQL024J-100X NQL024J-100X NQL024J-100X	COIL COIL COIL COIL COIL COIL COIL COIL	10uH 10uH 10uH 10uH 10uH 10uH 10uH 10uH
LC1	NQR0155-004X	LC FILTER	

Symbol No.	Part No.	Part Name	Description
LC2 LC3	NQR0155-004X NQR0155-004X	LC FILTER LC FILTER	
X1 X2	NAX0065-001X NAX0074-001X	CRYSTAL CRYSTAL	4.9152MHz 32.768kHz
\$1 \$2 \$3 \$4 \$5 \$6 \$7 \$8 \$9 \$10	NSW0039-001X NSW0039-001X NSW0039-001X NSW0039-001X NSW0039-001X NSW0039-001X NSW0039-001X NSW0039-001X QSW0340-001 QSW0340-001	TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH SLIDE SWITCH SLIDE SWITCH	OPERATE EJECT PAUSE PLAY REC FF STOP REW COUNTER MONITOR
S11 S13	QSW0340-001 QSW0334-001	SLIDE SWITCH SLIDE SWITCH	OUTPUT REMOTE/LOCAL
J1 J2	QNZ0224-001 QNS0108-001	MINI JACK MINI JACK	MIC PHONES
CN1 CN2 CN3 CN101 CN102 CN103		CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	20PIN 20PIN 3PIN 10PIN 10PIN
TP1	NNZ0009-001X	TEST POINT	TP1-10
K1 K8	NQR0292-001X NDC21HJ-101X	FERRITE BEAD CER.CAPACITOR	K1-11 100p · 50V
TB1 TB2	NNZ0006-001X NNZ0006-001X	EARTH TERMINAL EARTH TERMINAL	
HD1	PQ40795-2-2	LED HOLDER	FOR LD1-5
		1	

6.6 REAR1 BOARD ASSEMBLY PARTS LIST 06

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	SLK2100-01-A0B		0	6		

Symbol	Part No.	Part Name	Description
No.			
D1	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D2 D3	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D3	MA3091/M/-X MA3091/M/-X	ZENER DIODE	MATSUSHITA MATSUSHITA
D5	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D6	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D7	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D8	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D9	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D10	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D11	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D12	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D13	MA3091/M/-X MA3091/M/-X	ZENER DIODE	MATSUSHITA
D14 D15	MA3091/M/-X	ZENER DIODE ZENER DIODE	MATSUSHITA MATSUSHITA
D16	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D17	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D18	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D19	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D20	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D21	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D22	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D23	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D24 D25	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D26	MA3091/M/-X MA3091/M/-X	ZENER DIODE ZENER DIODE	MATSUSHITA
D27	MA3091/M/-X	ZENER DIODE	MATSUSHITA MATSUSHITA
D28	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D29	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D30	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D31	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D32	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D33	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D34 D35	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D35	MA3091/M/-X MA3091/M/-X	ZENER DIODE	MATSUSHITA
D37	MA3091/M/-X	ZENER DIODE	MATSUSHITA MATSUSHITA
D38	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D39	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D40	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D41	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D42	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D43 D44	MA3091/M/-X MA3091/M/-X	ZENER DIODE	MATSUSHITA
D44	14142081/141/-V	ZENER DIODE	MATSUSHITA
C1	NDC21HJ-221X	CER.CAPACITOR	220p 50V
C2	NDC21HJ-221X	CER.CAPACITOR	220p 50V
C4	NDC21HJ-221X	CER.CAPACITOR	220p 50V
C5	NDC21HJ-221X	CER.CAPACITOR	220p 50V
C7	NDC21HJ-221X	CER.CAPACITOR	220p 50V
C8	NDC21HJ-221X	CER.CAPACITOR	220p 50V
C10	NDC21HJ-221X	CER.CAPACITOR	220p 50V
L1	NQL024J-100X	COIL	10uH
L2	NQL024J-100X	COIL	10uH
L3	NQL024J-100X	COIL	10uH
L4	NQLO24J-100X	COIL	10uH
L5	NQL024J-100X	COIL	10uH
S1	QSW0261-001	SLIDE SWITCH	TIMER REC/PLAY
1101	ON70000 001	V/C CONNECTOR	IV/C IN
J101 J102	QNZQ226-001	Y/C CONNECTOR	Y/C IN
J102 J103	QNZO226-001 QNZO169-001	Y/C CONNECTOR BNC CONNECTOR	Y/C OUT
J103	QNZO169-001	BNC CONNECTOR	LINE IN/OUT,MON CPN IN/OUT,SYNC
J105	QNZO169-001	BNC CONNECTOR	R-Y IN/OUT, TC O
J106	QNZQ169-001	BNC CONNECTOR	B-Y IN/OUT,TC I
J107	QNN0236-001	RCA CONNECTOR	CH1 IN/OUT,MONI
J108	QNN0232-001	RCA CONNECTOR	CH2 IN/OUT,MONI
J109	QNZO225-001	MINI JACK	SERIAL IN
			<u> </u>

Symbol No.	Part No.	Part Name	Description
CN103 CN104	QGF1009F2-16 QGA1501F1-10 QGA1501F1-09 QGA1501F1-08 QGA1501F1-10 PGZ01693-009Z	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	16PIN 10PIN 9PIN 8PIN 10PIN

6.7 REAR3 BOARD ASSEMBLY PARTS LIST 08 SLK2100-03-A0B 08

Symbol No.	Part No.	Part Name	Description
			
D1 D2	MA3240/M/-W	ZENER DIODE	MATSUSHITA
D2	MA3240/M/-W MA3240/M/-W	ZENER DIODE ZENER DIODE	MATSUSHITA MATSUSHITA
D4	MA3240/M/-W	ZENER DIODE	MATSUSHITA
D5	MA3240/M/-W	ZENER DIODE	MATSUSHITA
D6	MA3240/M/-W	ZENER DIODE	MATSUSHITA
D7	MA3240/M/-W	ZENER DIODE	MATSUSHITA
D8	MA3240/M/-W	ZENER DIODE	MATSUSHITA
J301	QNZ0327-001	CONNECTOR (9P)	RS-422A
CN301	QGA1501F1-07	CONNECTOR	7PIN
K1	PGZ01693-009Z	FERRITE BEADS	K1-2

6.8 REAR4 BOARD ASSEMBLY PARTS LIST 0 9 SLK2100-04-A0B 0 9

	E 100-04-70D		
Symbol No.	Part No.	Part Name	Description
J401	PGZ01516	12PIN CONNECTOR	REMOTE 12PIN
CN401	QGA1501F1-08	CONNECTOR	8PIN

6.9 DV MAIN BOARD ASSEMBLY PARTS LIST 10 SLK2087-NOD(U)

Symbol No.	Part No.	Part Name	Description
IC101	MN102F1617HL-63		MATSUSHITA (U)
	MN102F1617HL-43		MATSUSHITA (E)
IC103	X25057M8-2.7-X	I.C.(M)	XICOR
IC105	S-80823ANNP-W	I.C.(M)	SEIKO
IC106	NM24C16LEM8-X	I.C.(M)	MATSUSHITA
IC100	SN74CBT3384APWX	I.C.(M)	TEXAS
IC108	S-81240PG-PJ-X	I.C.(M)	SEIKO
IC113	TC7W04FU-X	i.C.(M)	TOSHIBA
IC201	AK4518-VF-X	I.C.(M)	ASAHI KASEI
IC202	M5218AFP-X	I.C.(M)	MITSUBISHI
IC301	MN67373	I.C.(M)	MATSUSHITA
10001	1411407070	1.0.(141)	
10000	NAN1471/00AF	LC (NA)	MATSUSHITA (U)
C302	MN47V06AF	I.C.(M)	
	MN47V07AF	I.C.(M)	MATSUSHITA (E)
IC303	M65500FP	I.C.(M)	MITSUBISHI
IC304	MN41V4260TT-A07	1.C.(M)	MATSUSHITA
IC305	AD9057BRS-60-X	I.C.(M)	FUJI ELECTRO
IC306	PLL1700E-X	I.C.(M)	BURR BROWN
	i e		NEC
IC307	UPC2384GA	I.C.(M)	
IC401	M31020EAVP-00B	I.C.(M)	MITSUBISHI (U)
	M31020EAVP-10B	I.C.(M)	MITSUBISHI (E)
C402	TC7W14FU-X	I.C.(M)	TOSHIBA
IC403	TC7W04FU-X	I.C.(M)	TOSHIBA
IC404	NM24C16LEM8-X	I.C.(M)	MATSUSHITA
10404	INIVIZAC I OLEIVIO-X	1.0.(19)/	IVICIOUSIIIA
lC501	AN3741FAP-A	I.C.(M)	MATSUSHITA
IC503	MB88345PF	I.C.(M)	FUJITSU
C601	BH7086KV	I.C.(M)	ROHM
IC602	T9P90EF	1.C.(M)	TOSHIBA
IC603	M52387FP	I.C.(M)	MITSUBISHI
IC604	M52684AFP-XE	I.C.(M)	MITSUBISHI
IC605	TC7SH08F-X	I.C.(M)	TOSHIBA
IC606	TC7SH00F-X	I.C.(M)	TOSHIBA
IC610	TC7SET04FU-X	I.C.(M)	TOSHIBA
IC611	TC7SHU04FU-X	I.C.(M)	TOSHIBA
10011	107011004107	1.0.(,**)	1.001.10.1
10040	TC7SHU04FU-X	I.C.(M)	TOSHIBA
IC612			
IC613	TC7SHU04FU-X	I.C.(M)	TOSHIBA
IC614	TC7SHU04FU-X	I.C.(M)	TOSHIBA
IC615	AN77L03M-X	I.C.(M)	MATSUSHITA
IC801	TSB13LV11PBW	I.C.(M)	TEXAS
10001	1001024111044	,	
Q101	2SC4617/RS/-X	TRANSISTOR	ROHM
0202	2SC4617/RS/-X	TRANSISTOR	ROHM
Q401	DTA114EUA-X	TRANSISTOR	ROHM
Q402	UMG3N-W	TRANSISTOR	ROHM
Q403	UMC3N-W	TRANSISTOR	ROHM
Q404	UMC3N-W	TRANSISTOR	İROHM
Q501	2SC4226/3-5/-X	TRANSISTOR	NEC
	DTC124EUA-X	TRANSISTOR	ROHM
Q502			ROHM
Q503	2SC4617/RS/-X	TRANSISTOR	1
Q505	DTC144EUA-X	TRANSISTOR	ROHM
Q506	DTC144EUA-X	TRANSISTOR	ROHM
Q507	DTC144EUA-X	TRANSISTOR	ROHM
		TRANSISTOR	ROHM
Q511	2SA1774/QRS/-X		
Q512	DTC144EUA-X	TRANSISTOR	ROHM
Q513	UMZ1N-W	TRANSISTOR	ROHM
Q601	2SC4081/QRS/-X	TRANSISTOR	ROHM
0602	2SC4081/QRS/-X	TRANSISTOR	ROHM
			ROHM
Q603	2SC4081/QRS/-X	TRANSISTOR	1
Q605	2SC4081/QRS/-X	TRANSISTOR	ROHM
Q608	2SC4081/QRS/-X	TRANSISTOR	ROHM
0609	2SC4081/QRS/-X	TRANSISTOR	ROHM
	2SB1218A/RS/-X	TRANSISTOR	MATSUSHITA
Q610			
Q611	2SB1218A/RS/-X	TRANSISTOR	MATSUSHITA
Q612	DTC144WUA-X	TRANSISTOR	ROHM
Q613	DTC144WUA-X	TRANSISTOR	ROHM
Q614	DTC144EUA-X	TRANSISTOR	ROHM
Q014	D10144LUA-A	TIMINOID TOTA	
	D 4410221111	DIODE	DOLLA
D102	DAN202U-X	DIODE	ROHM
D103	DAN202U-X	DIODE	ROHM
D401	DAP202U-X	DIODE	ROHM
D402	DAP202U-X	DIODE	ROHM
D601	1SS355-X	DIODE	ROHM
1000	100000-1	DIODE	1
			1
		1	
5001	.55555 X		

Symbol	Part No.	Part Name	Description		
No.	Fait No.	Fait Name			
R101	NRSA63J-0R0X	M.G.RESISTOR	0 100k	1/16W 1/16W	
R103 R104	NRSA63J-104X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1k	1/16VV	
R104	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R106	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R107	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R108	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R109	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R110 R111	NRSA63J-102X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1k 1k	1/16W 1/16W	
niii	NN3A03J-102A	IVI.G.RESISTOR		1/10//	
R112	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R113	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R114	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R115	NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1k 1k	1/16W 1/16W	
R116 R117	NRSA63J-102X NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R118	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R137	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R138	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R139	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R142	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R143	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	
R144	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	
R150	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
R152	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R157	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	
R162 R163	NRSA63J-0R0X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	0 10k	1/16W 1/16W	
R164	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
R169	NRSA63J-OROX	M.G.RESISTOR	o ·	1/16W	
R170	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	
R171	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	100k 100k	1/16W 1/16W	
R172 R173	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
R174	NRSA63J-0R0X	M.G.RESISTOR	ő	1/16W	
R175	NRSA63J-473X	M.G.RESISTOR	47k	1/16W	
R176	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
R177	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
R178 R179	NRSA63J-0R0X NRSA63J-473X	M.G.RESISTOR M.G.RESISTOR	0 47k	1/16W 1/16W	
11173	141107000-1707	WI.G.HESISTON	7/7	171044	
R180	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	
R181	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	
R182	NRSA63J-332X	M.G.RESISTOR M.G.RESISTOR	3.3k 3.3k	1/16W	
R183 R184	NRSA63J-332X NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W 1/16W	
R185	NRSA63J-101X	M.G.RESISTOR	100	1/16W	
R186	NRSA63J-101X	M.G.RESISTOR	100	1/16W	
R187	NRSA63J-101X	M.G.RESISTOR	100	1/16W	
R188	NRSA63J-101X	M.G.RESISTOR	100	1/16W	
R189	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	
R198	NRSA63J-0R0X	M.G.RESISTOR	О	1/16W	
R199	NRSA63J-0R0X	M.G.RESISTOR	0 .	1/16W	
R202	NRSA63J-100X	M.G.RESISTOR	10	1/16W	
R207	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
R208 R209	NRSA63J-471X NRSA63J-471X	M.G.RESISTOR	470 470	1/16W 1/16W	
R210	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W	
R211	NRSA63J-123X	M.G.RESISTOR	12k	1/16W	
R212	NRSA63J-912X	M.G.RESISTOR	9.1k	1/16W	
R214	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R215	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	
R216	NRSA63J-221X	M.G.RESISTOR	220	1/16W	
R217	NRSA63J-912X	M.G.RESISTOR	9.1k	1/16W	
R218	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R219	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	
R221 R223	NRSA63J-221X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	220 10k	1/16W	
R301	NRSA63J-103X	M.G.RESISTOR	270	1/16W 1/16W	
R302	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	
R303	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	
500:	NIDOACO LACON	M.C. PECIOTOR			
R304 R305	NRSA63J-102X NRSA63J-105X	M.G.RESISTOR M.G.RESISTOR	1k 1M	1/16W	
R306	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W 1/16W	
. 1000				1/10//	

[DV MAIN]

	ymbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name	D	escription
	R307	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R433	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
		NRSA63J-471X	M.G.RESISTOR	470	1/16W	R434	NRSA63J-561X	M.G.RESISTOR	560	1/16W
		NRSA63J-471X	M.G.RESISTOR	470	1/16W	R435	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
1		NRSA63J-221X	M.G.RESISTOR	220	1/16W	R436	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
ì	R311	NRSA63J-221X	M.G.RESISTOR	220	1/16W					
	R312	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R437	NRSA63J-0R0X	M.G.RESISTOR	lo	1/16W
	R313	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R438	NRSA63J-561X	M.G.RESISTOR	560	1/16W
1				1.4	., ,	R439	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
1	R314	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R440	NRSA63J-0R0X	M.G.RESISTOR	0	
	R315	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W					1/16W
						R443	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
		NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R444	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	R317	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W	R447	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	R319	NRSA63J-224X	M.G.RESISTOR	220k	1/16W	R448	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	R320	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R449	NRSA63J-103X	M.G.RESISTOR	110k	1/16W
	R321	NRSA63J-750X	M.G.RESISTOR	75	1/16W	R450	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
1	R322	NRSA63J-124X	M.G.RESISTOR	120k	1/16W				-	.,
	R323	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R451	NRSA63J-0R0X	M.G.RESISTOR	0	1/16\4/
				ő						1/16W
	R331	NRSA63J-0R0X	M.G.RESISTOR	U	1/16W	R452	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
1						R454	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
	R332	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R502	NRSA63J-181X	M.G.RESISTOR	180	1/16W
	R333	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R503	NRSA63J-301X	M.G.RESISTOR	300	1/16W
ļ	R334	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R504	NRSA63J-391X	M.G.RESISTOR	390	1/16W
	R335	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R505	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
	R336	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R507	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16VV
		NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W	R508	NRSA63J-392X			
								M.G.RESISTOR	3.9k	1/16W
		NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R509	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
		NRSA63J-0R0X	M.G.RESISTOR	0	1/16W					
	R340	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R510	NRSA63J-221X	M.G.RESISTOR	220	1/16W
1	R341	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R512	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
						R513	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
1	R343	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R514	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
		NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R515	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
	R345	NRSA63J-OROX	M.G.RESISTOR	0	1/16W	R516	NRSA63J-OROX			
		NRSA63J-333X						M.G.RESISTOR	0	1/16W
			M.G.RESISTOR	33k	1/16W	R517	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
	R347	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R518	NRSA63J-331X	M.G.RESISTOR	330	1/16W
		NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R519	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
1	R349	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R520	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
	R350	NRSA63J-101X	M.G.RESISTOR	100	1/16W	1				
1	R351	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R521	NRSA63J-391X	M.G.RESISTOR	390	1/16W
	R352	NRSA63J-103X	M.G.RESISTOR	10k	·1/16W	R522	NRSA63J-121X	M.G.RESISTOR	120	1/16W
		111071000 10071		1.01	1,71044	R523	NRSA63J-121X	M.G.RESISTOR	120	1/16W
	R353	NRSA63J-103X	M C PECISTOR	10k	1/16/4/					
			M.G.RESISTOR		1/16W	R524	NRSA63J-121X	M.G.RESISTOR	120	1/16W
	R354	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R525	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
	R355	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R526	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
	R356	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R527	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
1	R357	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R528	NRSA63J-221X	M.G.RESISTOR	220	1/16W
1	R402	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R529	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
	R403	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	R530	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
	R404	NRSA63J-220X	M.G.RESISTOR	22	1/16W					
	R405	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R533	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
		NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R535	NRSA63J-564X	M.G.RESISTOR	560k	
1	11400	14113A003-102X	W.G.NESISTOR	112	171000		NRSA63J-392X			1/16W
1	D 407	NIDO AND LADOV		1		R536		M.G.RESISTOR	3.9k	1/16W
	R407	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R537	NRSA63J-561X	M.G.RESISTOR	560	1/16W
		NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R538	NRSA63J-224X	M.G.RESISTOR	220k	1/16VV
		NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R539	NRSA63J-680X	M.G.RESISTOR	68	1/16W
		NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R540	NRSA63J-103X	M.G.RESISTOR	10k	1/16VV
1	R411	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R541	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
	R412	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R555	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
		NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R556	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
		NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W					1,1011
	R415	NRSA63J-223X	M.G.RESISTOR	22k		DECE	NIDCARO I ERRY	M.C. PECICTOR	501	4.44.014.1
					1/16W	R565	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
1	R416	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R566	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
				1.		R567	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
		NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R568	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
	R418	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R569	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
	R419	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R570	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
	R420	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R601	NRSA63J-104X	M.G.RESISTOR	100k	1/16VV
	R421	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R602	NRSA63J-104X			
	R422			E				M.G.RESISTOR	100k	1/16W
		NRSA63J-202X	M.G.RESISTOR	2k	1/16W	R603	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	R423	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R604	NRSA63J-103X	M.G.RESISTOR	10k	1/16 V V
	R424	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	1				
	R425	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R605	NRSA63J-121X	M.G.RESISTOR	120	1/16VV
	R426	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R606	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16VV
						R607	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16VV
	R427	NRSA63J-683X	M.G.RESISTOR	68k	1/16W	R608	NRSA63J-101X	M.G.RESISTOR	100	1/16VV
	R428	NRSA63J-683X	M.G.RESISTOR	68k	1/16W		NRSA63J-563X			
						R609		M.G.RESISTOR	56k	1/16W
	R429	NRSA63J-330X	M.G.RESISTOR	33	1/16W	R610	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
	R430	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R611	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
	R431	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R612	NRSA63J-391X	M.G.RESISTOR	390	1/16VV
	R432	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R613	NRSA63J-223X	M.G.RESISTOR	22k	1/16VV
			,					1		

Symbol No.	Part No.	Part Name	Description
R614	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R615	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R616	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R617	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R618	NRSA63J-183X	M.G.RESISTOR	18k 1/16W ·
	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R619			1 * * *
R620	NRSA63J-123X	M.G.RESISTOR	12k 1/16W
R621	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R622	NRSA63J-123X	M.G.RESISTOR	12k 1/16W
R623	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R624	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R625	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
R626	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
R629	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R631	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R632	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R633	NRSA63J-123X	M.G.RESISTOR	12k 1/16W
R634	NRSA63J-123X	M.G.RESISTOR	12k 1/16W
R635	NRSA63J-183X	M.G.RESISTOR	18k 1/16W
R636	NRSA63J-183X	M.G.RESISTOR	18k 1/16W
R637	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R638	NRSA63J-823X	M.G.RESISTOR	82k 1/16W
R645	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R647	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R648	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R649			0 1/16W
R651	NRSA63J-0R0X	M.G.RESISTOR	
R652	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R653	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R654	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R655	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R656	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W
R657	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R658	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R659	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R660	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R661	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R662	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R663	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R664	NRSA63J-391X	M.G.RESISTOR	390 1/16W
R665	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R666	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R667	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R668	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R669	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R670	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R671	NRSA63J-473X	M.G.RESISTOR	47k 1/16W
R672	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R675	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R678	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R679	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R680	NRSA63J-OROX	M.G.RESISTOR	0 1/16W
R681	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
		M.G.RESISTOR	10k 1/16W
R682	NRSA63J-103X		
R683	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R684	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R685	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R686	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R687	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R688	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R690	NRSA63J-564X	M.G.RESISTOR	560k 1/16W
R691	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R692	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R693	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R694	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R695	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R696	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R697	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R700	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R701	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
R702	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R703	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W

Symbol				
No.	Part No.	Part Name	Des	cription
R704 R705 R706 R709 R710 R717 R718 R719	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 0 0 0 0 0 0 0 0	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R722 R723 R724 R725 R726 R727 R728 R729 R730 R731	NRSA63J-105X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-105X NRSA63J-105X NRSA63J-102X NRSA63J-102X NRSA63J-222X NRSA63J-222X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1M 1k 1k 1k 100 1M 1k 1k 2.2k 2.2k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R732 R733 R734 R736 R738 R739 R740 R741 R742 R801	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-222X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 0 2.2k 2.2k 0 0 1k 1k 1k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R802 R803 R804 R805 R806 R808 R809 R810 R811 R812	NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 10k 10k 10k 100k 100k 10k 10k 10k 10	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R813 R815 R816 R817 R818 R819 R823 R824 R825 R826	NRSA63J-103X NRSA63J-0R0X NRSA63J-270X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-394X NRSA63J-332X NRSA63J-322X NRSA63J-272X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 0 27 10k 10k 10k 390k 3.3k 2.7k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R831 R832 R833 R834 R835 R836 R837 R838	NRSA63J-0R0X NRSA63J-512X NRVA63D-560X NRVA63D-560X NRVA63D-560X NRVA63D-560X NRSA63J-0R0X NRSA63J-105X	M.G.RESISTOR M.G.RESISTOR C.M.F.RESISTOR C.M.F.RESISTOR C.M.F.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 5.1k 56 56 56 56 51 56	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
RA101 RA102 RA103 RA104 RA105 RA106 RA107 RA108 RA401 RA402	NRZ0012-104X NRZ0012-104X NRZ0015-102X NRZ0015-102X NRZ0012-104X NRZ0012-104X NRZ0015-102X	RESISTOR ARRAY RESISTOR ARRAY CHIP R ARRAY CHIP R ARRAY RESISTOR ARRAY RESISTOR ARRAY CHIP R ARRAY CHIP R ARRAY RESISTOR ARRAY RESISTOR ARRAY	1k 1k 100k 100k 1k 1k 100k 100k 11k 1k	
RA403	NRZ0015-473X	M.G.RESISTOR	47k	
C101 C102	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 0.01	50V 50V

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Symbol No.	Part No.	Part Name	De	escription	Symbol No.	Part No.	Part Name		Description
C103	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C318	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C104	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C319	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C105	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C320	NBE51AM-226X	TAN.CAPACITOR	22	
C106	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C321	NCB31CK-104X	CER.CAPACITOR	0.1	10V
C108	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C323	NCB31HK-103X			16V
C109	NBE51CM-226X	TAN.CAPACITOR	22	16V	C323	INCDS ITIN-103X	CER.CAPACITOR	0.01	50V
C110	NCB31HK-103X				C224	NCDO4LIK 100V	CED CARACITOR	0.04	50) /
		CER.CAPACITOR	0.01	50V	C324	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C112	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C325	NCB31CK-104X	CER.CAPACITOR	0.1	16V
					C326	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C113	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C327	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C114	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C328	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C115	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C329	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C116	NBE51CM-226X	TAN.CAPACITOR	22	16V	C330	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C117	NCF21CZ-105X	CER.CAPACITOR	1	16V	C331	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C118	NDC31HJ-100X	CER.CAPACITOR	10p	50V	C332	NBE51AM-226X	TAN.CAPACITOR	22	10V
C119	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C333	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C120	NDC31HJ-100X	CER.CAPACITOR	10p	50V					
C125	NBE41AM-226X	TAN.CAPACITOR	22	10V	C334	NBE71CM-476X	TAN.CAPACITOR	47	16V
C126	NBE51CM-226X	TAN.CAPACITOR	22	16V	C335	NCB31CK-104X	CER.CAPACITOR	0.1	16V
					C336	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C127	NBE40JM-226X	TAN.CAPACITOR	22	6.3V	C337	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C128	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C338	NBE51CM-226X		22	
C130	NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V	C339	NCB31HK-103X	TAN.CAPACITOR CER.CAPACITOR		16V
C135	NBE41AM-226X	TAN.CAPACITOR	22	10V	C340			0.01	50V
C136	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C340	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C136	NCF31CZ-104X					NDC31HJ-270X	CER.CAPACITOR	27p	50V
C141	NCB31HK-103X	CER.CAPACITOR	0.1	16V	C342	NCB31HK-103X	CER.CAPACITOR	0.01	50V
		CER.CAPACITOR		50V	C343	NBE51AM-226X	TAN.CAPACITOR	22	10V
C146	NCB31HK-103X	CER.CAPACITOR	0.01	50V					
C147	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C344	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C148	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C345	NCB31HK-103X	CER.CAPACITOR	0.01	50V
					C346	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C149	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C347	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C150	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C348	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C201	NBE41AM-226X	TAN.CAPACITOR	22	10V	C349	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C202	NBE41AM-226X	TAN.CAPACITOR	22	10V	C350	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C203	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C351	NBE51AM-226X	TAN.CAPACITOR	22	10V
C204	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C352	NBE51CM-226X	TAN.CAPACITOR	22	16V
C205	NBE41AM-475X	TAN.CAPACITOR	4.7	10V	C353	NDC31HJ-101X	CER.CAPACITOR	100p	50V
C206	NCB31CK-104X	CER.CAPACITOR	0.1	16V	i			1	•••
C207	NCF21CZ-105X	CER.CAPACITOR	1	16V	C354	NCB31CK-823X	CER.CAPACITOR	0.082	16V
C208	NCF21CZ-105X	CER.CAPACITOR	1	16V	C361	NCB31CK-223X	CER.CAPACITOR	0.022	16V
					C362	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C209	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C363	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C210	NCB31HK-222X	CER.CAPACITOR	2200p	50V	C364	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C211	NCB31HK-222X	CER.CAPACITOR	2200p	50V	C366	NDC31HJ-4R0X	CER.CAPACITOR	4p	50V
C212	NBE41AM-475X	TAN.CAPACITOR	4.7	10V	C367	NBE41VM-474X	TAN.CAPACITOR	0.47	35V
C213	NBE41AM-475X	TAN.CAPACITOR	4.7	10V	C368	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C214	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C369	NBE51AM-226X	TAN.CAPACITOR	22	10V
C215	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C401	NBE51AM-476X	TAN.CAPACITOR	47	107
C216	NBE41CM-226X	TAN.CAPACITOR	22	16V	CAOT	INDESTAIN 470X	TAN.CAFACITOR	4/	100
C217	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C402	NBE51AM-476X	TAN.CAPACITOR	147	10\/
C218	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C402	NCF31CZ-104X		47	10V
0210	NODOTOK-104X	CEN.CALACITON	0.1	100	C404	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C219	NBE41AM-226X	TAN.CAPACITOR	22	10\/	0.00		CER.CAPACITOR	0.1	16V
C220		TAN.CAPACITOR		10V	C405	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C220	NBE41CM-106X		10	16V	C406	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
	NBE41AM-106X	TAN.CAPACITOR	10	10V	C407	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C222	NBE41CM-106X	TAN.CAPACITOR	10	16V	C408	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C223	NBE41AM-106X	TAN.CAPACITOR	10	10V	C409	NDC31HJ-120X	CER.CAPACITOR	12p	50V
C224	NDC31HJ-221X	CER.CAPACITOR	220p	50V	C410	NDC31HJ-120X	CER.CAPACITOR	12p	50V
C225	NCB31HK-152X	CER.CAPACITOR	1500p	50V	C411	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C226	NDC31HJ-221X	CER.CAPACITOR	220p	50V					
C227	NCB31HK-472X	CER.CAPACITOR	4700p	50∨	C412	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C228	NCB31HK-472X	CER.CAPACITOR	4700p	50∨	C413	NCB31CK-223X	CER.CAPACITOR	0.022	16V
					C414	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C231	NCB31HK-152X	CER.CAPACITOR	1500p	50V	C415	NBE41AM-226X	TAN.CAPACITOR	22	10V
C303	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C416	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C304	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C417	NCF21CZ-105X	CER.CAPACITOR	1	16V
C305	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C418	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C306	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C419	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C307	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C501	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C308	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C502	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C309	NBE51AM-226X	TAN.CAPACITOR	22	10V	5502	104/	SELLOAFACITOR	0.1	104
C310	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C503	NCB31HV 103V	CED CADACITOR	000	E0\/
C310			0.01			NCB31HK-103X	CER.CAPACITOR	0.01	50V
COTT	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C505	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	NCD21HV 102V	CER CARACITOR	0.01	EM/	C506	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C507	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C312	NCDALLY 100Y			50V	C508	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C313	NCB31HK-103X	CER.CAPACITOR							
C313 C314	NBE51AM-226X	TAN.CAPACITOR	22	10V	C509	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C313									

Symbol No.	Part No.	Part Name	Description
		050 04040500	501
C512	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.01 50V
C513	NCB31HK-103X	CER.CAPACITOR	0.01 50V
0544	NODO4LIK 400V	CED CARACITOR	0.01 FOV
C514	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.1 16V
C515	NCF31CZ-104X	CER.CAPACITOR	1
C516	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C517	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C518	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.01 50V
C519	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V
C520	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C521	NCB31HK-103X	TAN.CAPACITOR	22 10V
C522	NBE41AM-226X	CER.CAPACITOR	0.01 50V
C523	NCB31HK-103X	CEN.CAFACITOR	0.01
C524	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C525	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C526	NCB31CK-273X	CER.CAPACITOR	0.027 16V
C527	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C527	NCB21AK-105X	CER.CAPACITOR	1 10V
C529	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C531	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C532	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C533	NBE41AM-226X	TAN.CAPACITOR	22 10V
C534	NCB31HK-103X	CER.CAPACITOR	0.01 50V
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C537	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C538	NCF31CZ-334X	CER.CAPACITOR	0.33 16V
C539	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C540	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C541	NDC31HJ-151X	CER.CAPACITOR	150p 50V
C542	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C543	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C544	NCB31HK-152X	CER.CAPACITOR	1500p 50V
C545	NCF21CZ-225X	CER.CAPACITOR	2.2 16V
C546	NCB31HK-103X	CER.CAPACITOR	0.01 50V
			401
C547	NBE41AM-226X	TAN.CAPACITOR	22 10V
C555	NCB31CK-223X	CER.CAPACITOR	0.022 16V 22 16V
C579	NBE51CM-226X	TAN.CAPACITOR	22 10V
C580	NBE41AM-226X NCB31HK-103X	TAN.CAPACITOR CER.CAPACITOR	0.01 50V
C581 C582	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C583	NBE71CM-476X	TAN.CAPACITOR	47 16V
C584	NBE71CM-476X	TAN.CAPACITOR	47 16V
C590	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C591	NCB31HK-103X	CER.CAPACITOR	0.01 50V
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C592	NCB31CK-273X	CER.CAPACITOR	0.027 16V
C593	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C601	NCF21CZ-105X	CER.CAPACITOR	1 16V
C602	NDC31HJ-101X	CER.CAPACITOR	100p 50V
C603	NCF21CZ-105X	CER.CAPACITOR	1 16V
C604	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C605	NDC31HJ-101X	CER.CAPACITOR	100p 50V
C606	NDC31HJ-220X	CER.CAPACITOR	22p 50V
C607	NDC31HJ-150X	CER.CAPACITOR	15p 50V
C608	NCF21CZ-105X	CER.CAPACITOR	1 16V
CROO	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C609 C610	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C611	NCB31EK-103X	CER.CAPACITOR	0.01 25V 0.1 16V
C612	NCB31HK-561X	CER.CAPACITOR	560p 50V
C612	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C614	NDC31HJ-5R0X	CER.CAPACITOR	5p 50V
C615	NDC31HJ-120X	CER.CAPACITOR	12p 50V
C617	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C619	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C620	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C621	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C622	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C623	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C624	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C625	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C626	NCB31EK-103X	CER.CAPACITOR	0.01 25V 0.1 16V
C627	NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
C628 C629	NCB31CK-104X NCB31CK-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C630	NCB31CK-104X	CER.CAPACITOR	0.1 16V
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Symbol No.	Part No.	Part Name	Description		
C631	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C632	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C633	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C634	NCB31EK-103X	CER.CAPACITOR	0.01	25V 25V	
C635	NCB31EK-103X	CER.CAPACITOR	0.01	25V 25V	
C638	NCB31EK-103X	CER.CAPACITOR	0.01	16V	
C639	NCB31CK-104X	CER.CAPACITOR	0.1	10V	
C640 C641	NBE51AM-226X NBE51AM-226X	TAN.CAPACITOR	22	107	
C642	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C643	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C644	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C645	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C646	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C647	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C649	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C650	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C651	NBE51AM-226X	TAN.CAPACITOR	22	10V	
C652	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C653	NBE51AM-226X	TAN.CAPACITOR	22	10V	
C654	NBE51AM-226X	TAN.CAPACITOR	22	10V	
C655	NBE51AM-226X	TAN.CAPACITOR	22	10V	
C656	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C657	NDC31HJ-101X	CER.CAPACITOR	100p	50V 16V	
C658	NCB21CK-474X	CER.CAPACITOR	0.47	25V	
C659	NCB31EK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	16V	
C660 C661	NCB31CK-473X NCB21CK-224X	CER.CAPACITOR	0.22	16V	
C662	NBE41AM-106X	TAN.CAPACITOR	10	10V	
C663	NBE21CM-684X	TAN.CAPACITOR	0.68	167	
C664	NCB31HK-681X	CER.CAPACITOR	680p	50V	
C665	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C666	NDC31HJ-270X	CER.CAPACITOR	27p	50V	
C667	NCB31CK-273X	CER.CAPACITOR	0.027	16V	
C668	NCF21CZ-105X	CER.CAPACITOR	1	16V	
C669	NBE61CM-107X	TAN.CAPACITOR	100	16V	
C672	NCB31HK-152X	CER.CAPACITOR	1500p	50V	
C673	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C674 C675	NCB31HK-102X NCB31EK-103X	CER.CAPACITOR CER.CAPACITOR	1000g 0.01	50V 25V	
C676	NBE61CM-107X	TAN.CAPACITOR	100	16V	
C677	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C678	NCB31CK-104X	CER.CAPACITOR	0.1	167	
C680	NBE41CM-335X	TAN.CAPACITOR	3.3	167	
C681	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C682	NBE61CM-107X	TAN.CAPACITOR	100	16V	
C683	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C684	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C685	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C687	NCF21CZ-105X	CER.CAPACITOR	1	16V	
C688	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C689	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C690	NCF21CZ-105X	CER.CAPACITOR	1	16V	
C691	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C692	NCF21CZ-105X	CER.CAPACITOR	1	16V	
C693	NCF21CZ-105X	CER.CAPACITOR	1	16V	
C694	NBE21CM-225X	TAN.CAPACITOR	2.2	16V	
C695	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C696 C697	NDC31HJ-150X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR	15p 0.1	50V 16V	
C698	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C699	NDC31HJ-150X	CER.CAPACITOR	15p	50V	
C700	NCB31CK-104X	CER.CAPACITOR	0.1	16V	
C706	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C709	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C710	NCB31EK-103X	CER.CAPACITOR	0.01	25V	
C711	NBE51AM-226X	TAN.CAPACITOR	22	1 0V	
C712	NBE51AM-226X	TAN.CAPACITOR	22	10V	
C713 C714	NCB31CK-104X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR	0.1	16V 16V	
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C717 C718	NCB31CK-104X NCB31EK-103X	CER.CAPACITOR CER.CAPACITOR	0.1	16V 25V	

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Symbol No.	Part No.	Part Name	Description
C720 C721 C722 C738 C739 C801 C802	NCB31CK-104X NDC31HJ-180X NDC31HJ-180X NCB41CM-106X NCB41CM-106X NBE41AM-226X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 18p 50V 18p 50V 10 16V 10 16V 22 10V 0.1 16V
C803 C804 C805 C806 C807 C808 C809 C810 C811 C812	NBE40JM-226X NCF31CZ-104X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	22 6.3V 0.1 16V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V
C813 C814 C815 C816 C817 C819 C820 C821 C822	NCB31HK-103X NBE41AM-226X NCF31CZ-104X NCB31HK-103X NCF31CZ-104X NCF31CZ-104X NDC31HJ-271X NDC31HJ-5R0X NDC31HJ-6R0X	CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 22 10V 0.1 16V 0.01 50V 0.1 16V 0.1 16V 0.1 50V 50 50V 5p 50V 6p 50V
L111 L112 L113 L114 L115 L201 L202 L301 L302 L303	NQL23CM-330X NQL23CM-330X NQL044K-470X NQL23CM-330X NQL23CM-330X NQL114K-100X NQL114K-100X NQL044K-100X NQL044K-100X NQL044K-100X	COIL COIL COIL COIL COIL COIL COIL COIL	33uH 33uH 47uH 33uH 33uH 10uH 10uH 10uH 10uH 10uH
L304 L305 L306 L307 L309 L310 L311 L312 L313 L401	NQL024J-1R2X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X	COIL COIL COIL COIL COIL COIL COIL COIL	1.2uH 10uH 10uH 10uH 10uH 10uH 10uH 10uH 10
L501 L502 L511 L513 L601 L602 L603 L604 L605 L606	NQL044K-100X NQL044K-100X NQL114K-470X NQL044K-100X NQL044K-100X NQL024J-150X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL044K-100X NQL024J-5R6X	COIL COIL COIL COIL COIL COIL COIL COIL	10uH 10uH 47uH 10uH 10uH 15uH 10uH 10uH 10uH 5.6uH
L608 L609 L610 L612 L613 L614 L615 L801 L802 L803	NQL044K-100X NQL044K-100X NQL044K-221X NQL044K-221X NQL044K-100X NQL044K-220X NQL044K-220X NQL044K-100X NQL044K-100X NQL044K-100X	COIL COIL COIL COIL COIL COIL COIL COIL	10uH 10uH 220uH 220uH 10uH 22uH 22uH 10uH 10uH
L804 LC101 LC102	NQR0276-001X PGZ01972Z PGZ01972Z	COIL LC FILTER LC FILTER	

Symbol No.	Part No.	Part Name	Description
LC104 LC105 LC301 LC302 LC303 LC501 LC502	PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER	
X101 X401 X601 X602 X603 X801	NAX0349-001X NAX0348-001X NAX0227-001X NAX0348-001X NAX0280-001X NAX0241-001X	CRYSTAL CRYSTAL CRYSTAL CRYSTAL CRYSTAL CRYSTAL	27MHz 27MHz 503kHZ 27MHz 26.995MHz 24.576MHz
CN106 CN108	QGB0805L2-60X QGB0805L2-60X QGA1201C2-13X QGB0801L1-26X QGA1201F2-08X QGF0508F1-10X QGF0508F1-18X QGF0508F1-20X QGB0801L1-26X QGF0508F1-20X	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	60PIN 60PIN 13PIN 26PIN 8PIN 10PIN 18PIN 20PIN 26PIN 20PIN
CN801	QGA1201F2-06X	CONNECTOR	6PIN
TP101	NNZ0009-001X	TEST POINT	TP101-602
K101 K102 K301 K303 K401 K402 K403 K404 K601 K602	PGZ00627Z PGZ00627Z NOR0269-004X NQR0129-003X PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z NQR0269-004X	FERRATE BEADS FERRITE BEADS FERRITE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS	
K603 K604 K605 K801	NQR0269-004X NQR0269-004X NQR0269-004X PGZ00627Z	FERRITE BEADS FERRITE BEADS FERRITE BEADS FERRATE BEADS	
LA302 LA303 LA401 LA402 LA403	NQR0320-010X NQR0320-010X NQR0320-010X NQR0330-009X NQR0330-009X NQR0330-009X NQR0330-009X NQR0330-009X NQR0330-009X NQR0330-009X NQR0330-009X	F.B.ARRAY F.B.ARRAY F.B.ARRAY EMI FILTER ARY EMI FILTER ARY EMI FILTER ARY EMI FILTER ARY EMI FILTER ARY EMI FILTER ARY EMI FILTER ARY EMI FILTER ARY	
LA605	NQR0330-009X NQR0330-009X NQR0320-010X NQR0320-010X	EMI FILTER ARY EMI FILTER ARY F.B.ARRAY F.B.ARRAY	·
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6.10 JUNCTION BOARD ASSEMBLY PARTS LIST 11

	K2112-02-A0B	1	
ymbol No.	Part No.	Part Name	Description
R1	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
CN1 CN2	QGB0805M1-60X QGB0805M1-60X	CONNECTOR CONNECTOR	60PIN
CN3 CN10	QGA1501F2-04W QGF0508F1-22X	CONNECTOR	4PIN 22PIN
CN18 CN1701	QGF0508F1-18X QGA1501F2-06W	CONNECTOR CONNECTOR	19PIN 6PIN
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6.11 DCDC BOARD ASSEMBLY PARTS LIST 12 (MAIN unit) SLK2112-03-A0B

SI	K2112-03-A0B		12
Symbol No.	Part No.	Part Name	Description
IC301	MB3782PF-X	I.C.(M)	FUJITSU
IC302	MB3782PF-X	I.C.(M)	FUJITSU
IC303	S-80840ANNP-W	I.C.(M)	SEIKO
Q301	2SJ484WY-X	FET	HITACHI
Q302	2SC4097/OR/-X	TRANSISTOR	ROHM
Q303	2SA1577/OR/-X	TRANSISTOR	ROHM
Q304	2SJ484WY-X	FET	HITACHI
Q305	2SC4097/OR/-X	TRANSISTOR	ROHM
Q306	2SA1577/OR/-X	FET	ROHM
Q307	2SJ484WY-X	TRANSISTOR	HITACHI
Q308	2SC4097/OR/-X	TRANSISTOR	ROHM
Q309	2SA1577/OR/-X	TRANSISTOR	ROHM
Q310	HAT1021R-X	TRANSISTOR	HITACHI
Q311	2SC4097/QR/-X	TRANSISTOR	понм
Q312	2SA1577/QR/-X	TRANSISTOR	понм
D301	MA736-X	DIODE	MATSUSHITA
D302	MA736-X	DIODE	MATSUSHITA
D303	MA736-X	DIODE	MATSUSHITA
D304	MA738-X	DIODE	MATSUSHITA
D380	DAP202U-X	DIODE	ROHM
R301 R302 R303 R304 R305 R306 R307 R308 R309 R310	NRSA63D-332X NRSA63D-471X NRSA63D-100X NRSA63D-332X NRSA63D-471X NRSA63D-100X NRSA63D-332X NRSA63D-332X NRSA63D-100X NRSA63D-100X NRSA63D-332X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	3.3k 1/16W 470 1/16W 10 1/16W 470 1/16W 470 1/16W 10 3.3k 1/16W 470 1/16W 470 1/16W 470 1/16W 470 1/16W 10 1/16W 3.3k 1/16W 10 1/16W 3.3k 1/16W
R311 R312 R313 R320 R321 R322 R323 R324 R325 R326	NRSA63D-471X NRSA63D-100X NRSA63D-222X NRSA63D-153X NRSA63D-154X NRSA63D-222X NRSA63J-0R0X NRSA63J-0R0X NRSA63D-683X NRSA63D-274X NRSA63D-472X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	470 1/16W 10 1/16W 2.2k 1/16W 15k 1/16W 150k 1/16W 2.2k 1/16W 0 1/16W 68k 1/16W 270k 1/16W 4.7k 1/16W
R327	NRSA63D-154X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	150k 1/16W
R328	NRSA63D-472X		4.7k 1/16W
R329	NRSA63D-154X		150k 1/16W
R330	NRSA63D-683X		68k 1/16W
R331	NRSA63D-274X		270k 1/16W
R332	NRSA63D-683X		68k 1/16W
R333	NRSA63D-822X		8.2k 1/16W
R334	NRSA63D-822X		2.2k 1/16W
R335	NRSA63D-472X		4.7k 1/16W
R336	NRSA63D-822X		8.2k 1/16W
R337	NRSA63D-154X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	150k 1/16W
R338	NRSA63D-472X		4.7k 1/16W
R339	NRSA63D-472X		4.7k 1/16W
R340	NRSA63D-683X		68k 1/16W
R341	NRSA63D-274X		270k 1/16W
R342	NRSA63D-472X		4.7k 1/16W
R343	NRSA63D-122X		22k 1/16W
R344	NRSA63D-102X		1.8k 1/16W
R350	NRSA63D-102X		1k 1/16W
R351	NRSA63D-103X		10k 1/16W
R352 R353 R354 R355 R356 R357 R358 R359	NRSA63D-222X NRSA63D-472X NRSA63D-154X NRSA63D-683X NRSA63D-274X NRSA63D-472X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	2.2k 1/16W 4.7k 1/16W 150k 1/16W 68k 1/16W 270k 1/16W 4.7k 1/16W 10k 1/16W 10k 1/16W

6.12 AUDIO S/S BOARD ASSEMBLY PARTS LIST 13

SLK2097-A1C 13 [DCDC] Symbol Symbol No. Part No. Part Name Description Part No. Part Name Description R382 NRSA63D-683X M.G.RESISTOR 68k 1/16W IC101 M5201FP-X MITSUBISHI I.C.(M) IC102 M5201FP-X LC (M) MITSURISHI R383 NRSA63D-274X M.G.RESISTOR IC103 270k 1/16W M5218AFP-X I.C.(M) MITSURISH IC104 M51132FP-X I.C.(M) MITSUBISHI IC105 M51132FP-X I.C.(M) MITSUBISHI NCB310K-104X CER CAPACITOR C101 0.1 16\/ IC106 M5218AFP-X I.C.(M) MITSUBISHI NROD1AM-686X C301 TAN CAPACITOR โรล 10\/ IC107 MESON ED.Y I.C.(M) MITSURISHI C302 NCB31CK-104X CER.CAPACITOR 16V M5201FP-X 0.1 IC108 I.C.(M) MITSUBISHI C303 NBOD1AM-686X TAN.CAPACITOR 68 10V IC109 M5218AFP-X LC (M) MITSURISH C304 NBQD1AM-686X TAN.CAPACITOR 68 10V M5218AFP-X IC110 LC.(M) MITSURISHI C305 NCB31CK-104X CER.CAPACITOR 0.1 16V C306 NBQD1AM-686X TAN.CAPACITOR 68 10V IC111 TC4052BF-X I.C.(M) TOSHIBA C307 NBOD1AM-686X TAN CAPACITOR 68 10V IC112 M5218AFP-X MITSUBISHI I.C.(M) CER.CAPACITOR NCR31CK-104X C308 0 1 16V IC501 UPD784031GK-BE9 I.C.(M) NEC TAN.CAPACITOR NBQD1AM-686X C309 68 10V IC502 TC74VHC125FT-X LC.(M) TOSHIBA TC74VHC125FT-X IC503 LC (M) TOSHIBA C310 NBQD1AM-686X TAN.CAPACITOR 68 10V TC74VHC74FT-X IC504 LC.(M) TOSHIBA CER.CAPACITOR C311 NCB31CK-104X 0.1 16V IC505 TC74VHC74FT-X I.C.(M) TOSHIBA C312 NBQD1AM-686X TAN.CAPACITOR 68 10V IC506 DS8922M-X I.C.(M) NATIONAL SEMICO C313 NCB31CK-104X CER.CAPACITOR 0.1 16V IC507 DS14C232CM-X I.C.(M) NATIONAL SEMICO CER.CAPACITOR NCB310K-104X C320 n 1 16\/ IC508 X24645S8-2.7-X I.C.(M) **XICOR** C321 NCB31EK-822X CER.CAPACITOR 8200n 25V CER.CAPACITOR C322 NCB31CK-104X 16V IC509 TC74VHC139FT-X 0.1 TOSHIBA LC.(M) NCB31EK-822X CER.CAPACITOR C323 8200p 25V IC510 M51957BFP-X MITSUBISHI I.C.(M) C324 NCB31CK-104X CER.CAPACITOR 16V IC511 TC7W04FU-X I.C.(M) TOSHIBA C325 NCS31HJ-391X CER.CAPACITOR 390p 50V IC512 TC74VHC373FT-X I.C.(M) TOSHIBA IC513 PLSL1069-V1 I.C.(M) MBM29F002B-70PD C326 NCB31CK-104X CER CAPACITOR ი 1 16V C327 NCB31EK-822X CER.CAPACITOR 8200p 25V C328 NCB31CK-104X CER.CAPACITOR 0.1 16V SK513 SCV2768-001X IC SOCKET FOR IC513 C350 NCB31CK-104X CER.CAPACITOR 0.1 16V C351 NCB31CK-104X CER.CAPACITOR 0.1 16V C352 NCB31FK-822X CER CAPACITOR 8200p 25V IC514 CY62256LL70SN-X LC.(M) **CYPRESS** CER.CAPACITOR C353 NCB31CK-104X 0.1 16V IC515 UPD71055GB-10 I.C.(M) NEC C370 NCB41EM-475X CER.CAPACITOR 25V TOSHIBA 4.7 IC516 TC7W04FU-X I.C.(M) C371 NCB41EM-475X CER.CAPACITOR 4.7 25V IC517 TC7S14FU-X LC.(M) TOSHIRA C372 NCB41EM-475X CER.CAPACITOR 4.7 TC74VHC244FT-X IC518 I.C.(M) TOSHIBA AN77L03M-X IC704 I.C.(M) MATSUSHITA C373 NEX410M-226X F.CAPACITOR 22 20V IC705 TC74VHC541FT-X I.C.(M) TOSHIBA NCB41EM-475X CER CAPACITOR C374 4.7 25V IC706 TC74VHC541FT-X I.C.(M) TOSHIBA CER.CAPACITOR CER.CAPACITOR C375 NCB41EM-475X 25V 4.7 IC707 EPM064AE-10-002 LC.(M) ALTERA C376 NCB41EM-475X 25V 4.7 C377 NEX41DM-226X E.CAPACITOR 20V 22 C380 NCB31CK-104X CER.CAPACITOR 0.1 NNV0002-044 SK707 IC SOCKET FOR IC707 L301 NQL24CN-470X COIL 47uH IC708 MM1111XF-X I.C.(M) MITSUMI L302 SSV2810-330V COIL 33uH FI 4583CS-X IC709 LC (M) FLANTEC COIL L303 NQL25CM-330X 33uH IC710 TC7S14FU-X 1.C.(M) TOSHIBA COIL L304 SSV2810-330V 33uH AN77L03M-X I.C.(M) MATSUSHITA 1305 NQL25CM-470X COIL 47uH UPD6461GS-101 I.C.(M) IC715 NEC L306 SSV2810-330V COIL 33uH TC7S14FU-X I.C.(M) TOSHIBA IC716 L307 NOL42EM-220X COIL 22uH COIL L308 NQL26CM-220X 22uH L370 NQL26CM-330X COIL 33uH Q101 DTC323TU-X TRANSISTOR ROHM L371 NQL26CM-220X COIL 22uH Q102 DTC323TU-X TRANSISTOR ROHM DTC323TU-X TRANSISTOR Q103 ROHM Q104 DTC323TU-X **TRANSISTOR** ROHM CN301 QGA1501C2-05W CONNECTOR 5PIN 0105 DTC323TU-X TRANSISTOR **ROHM** CN302 QGA1501C2-10W CONNECTOR 10PIN 0501 DTA144FUA-X TRANSISTOR ROHM CONNECTOR 4PIN CN303 QGA1501C2-04W Q502 DTC144FUA-X TRANSISTOR ROHM DTC144EUA-X TRANSISTOR Q503 ROHM 0703 2SA1774/QRS/-X TRANSISTOR ROHM **↑**CP301 ICP-S2.3TN ICP 2SC4617/RS/-X TRANSISTOR Q706 ROHM **△CP302** ICP-S2.3TN ICP 2SA1774/ORS/-X 0707 TRANSISTOR ROHM 2SC4617/RS/-X Q708 TRANSISTOR ROHM TB301 NNZO006-001X EARTH TERMINAL Q709 2SK621-X MATSUSHITA FET 2SK621-X Q710 MATSUSHITA FET TRANSISTOR 2SC4617/RS/-X ROHM DAN202U-X D501 DIODE ROHM D502 MAR100/L/-X ZENER DIODE **ATTHRITAM** D503 DA204U-X DIODE ROHM DA204U-X D504 DIODE ROHM MA143A-X DIODE D701 MATSUSHITA D703 DAN202U-X DIODE ROHM

Symbol No.	Part No.	Part Name	Description] [
R101	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W] [
R103	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	1 1
R104	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	1 1
R106	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	11
R107	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	11
R108	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R109	NRSA63J-124X	M.G.RESISTOR	120k 1/16W	
R110	NRSA63J-224X	M.G.RESISTOR	220k 1/16W	
R111	NRSA63J-221X	M.G.RESISTOR	220 1/16W 3.3k 1/16W	11
R112	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	
, R113	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	
R114	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R115	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R116	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R117	NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 39k 1/16W	
R118	NRSA63J-393X	M.G.RESISTOR	47k 1/16W	11
R119 R120	NRSA63J-473X NRSA63J-103X	M.G.RESISTOR	10k 1/16W	11
R120	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	11
R122	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
			0 440041	
R123	NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 39k 1/16W	
R124 R125	NRSA63J-393X NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R126	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R127	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R128	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R129	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R130	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R131	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R132	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R133	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R134	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R135	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R136	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R137	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R138	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R139	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R140	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R141 R142	NRSA63J-330X NRSA63J-330X	M.G.RESISTOR M.G.RESISTOR	33 1/16W 33 1/16W	
1117-12	1110/1000 000/1			. •
R143	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R144	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R146	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 47k 1/16W	
R148 R149	NRSA63J-473X NRSA63J-473X	M.G.RESISTOR M.G.RESISTOR	47k 1/16W 47k 1/16W	
R150	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R151	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R152	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	
R153	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	
R154	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R155	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R156	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R157	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R158	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R159	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R160	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
R161	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R-162	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R163	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R164	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R165	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R166	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R167	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	1
R169	NRSA63J-331X	M.G.RESISTOR	330 1/16W	
R170	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R171	NRSA63J-331X	M.G.RESISTOR	330 1/16W	
R172	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R173	NRSA63J-393X	M.G.RESISTOR M.G.RESISTOR	39k 1/16W 47k 1/16W	
R174 R175	NRSA63J-473X NRSA63J-393X	M.G.RESISTOR	39k 1/16W	
				1
R176	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	
R501	NRSA63J-221X	M.G.RESISTOR M.G.RESISTOR	220 1/16W 220 1/16W	
R502	NRSA63J-221X			

Symbol No.	Part No.	Part Name	Des	cription
R503	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R504	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R505	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R506	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R507	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R508	NRSA02J-221X	M.G.RESISTOR	220	1/10VV
R509	NRSA02J-221X	M.G.RESISTOR	220	1/10W
R510	NQR0227-004X	CHIP EMI FILTER	000k	2W
R511	NQR0227-004X	CHIP EMI FILTER	000k	2W
R512	NQR0227-004X	CHIP EMI FILTER M.G.RESISTOR	000k	2W 1/16W
R513 R514	NRSA63J-222X	M.G.RESISTOR	2.2k 2.2k	1/16W
R515	NRSA63J-222X NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R516	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R517	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R519	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R520	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R521	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
R522	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R523	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R524	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R525	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R526	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R527	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R528	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R529 R530	NRSA63J-103X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	10k 1k	1/16W 1/16W
R531	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R532	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R533	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R534	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R535	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R536	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R537	NRSA63J-0R0X	M.G.RESISTOR	ō	1/16W
R538	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R539	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R540	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R541	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R542	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R543	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R544	NRSA63J-333X	M.G.RESISTOR	33k 33k	1/16W 1/16W
R545 R546	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R547	NRSA63J-333X NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R548	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R549	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R550	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R551	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R552	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R553	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R554	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R555	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R556	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R557	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R558	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R559 R560	NRSA63J-333X NRSA63J-333X	M.G.RESISTOR M.G.RESISTOR	33k 33k	1/16W 1/16W
			33k	
R561 R562	NRSA63J-333X	M.G.RESISTOR	133k	1/16W
	NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1M	1/16W 1/16W
R563 R564	NRSA63J-105X NRSA63J-104X	M.G.RESISTOR	100k	1/16VV
R565	NRSA63J-104X	M.G.RESISTOR	100k	1/16VV
R566	NRSA63J-104X	M.G.RESISTOR	100k	1/16VV
R567	NRSA63J-104X	M.G.RESISTOR	100k	1/16//
R568	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R569	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16VV
R570	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R571	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R572	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R573	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R574	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R575	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R576	NRSA63J-104X	M.G.RESISTOR	100k	1/16W

[AUDIO S/S]

Symbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name	E	Description
R577	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R746	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R578	NRSA63J-221X	M.G.RESISTOR	220	1/16W	1				
R579	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R748	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R580	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R751	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
11000	7111071000 22 171			.,	R754	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
DE01	NRSA63J-221X	M C BECIETOR	220	1/16///	R755			0	
R581		M.G.RESISTOR		1/16W		NRSA63J-0R0X	M.G.RESISTOR		1/16W
R582	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R768	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R583	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R769	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R584	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R770	NRSA63J-564X	M.G.RESISTOR	560k	1/16W
R585	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R771	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R586	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R772	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R587	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R775	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R588	NRSA63J-221X	M.G.RESISTOR	220	1/16W					,
R589	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R776	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R590	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R777	NRSA63J-101X	M.G.RESISTOR	100	1/16W
กอฮบ	NH3A033-221A	W.G.RESISTOR	220	1/1000				1	
					R780	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R591	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R781	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R592	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R782	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R593	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R783	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R594	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R785	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R595	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R788	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R596	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R791	NRSA63J-0R0X	M.G.RESISTOR	o	1/16VV
R597	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R793	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R598	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W			10		
R599	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R794	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16 W
R602	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R795	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
					R796	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R603	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R797	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R604	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R798	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R605	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R800	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R606	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R801	NRSA63J-0R0X	M.G.RESISTOR	0	1/16 V V
R608	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R802	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16 V V
R609	NRSA63J-4R7X	M.G.RESISTOR	4.7	1/16W	R803	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16 V V
R610	NRSA63J-473X	M.G.RESISTOR	47k	1/16W	R804	NRSA63J-181X	M.G.RESISTOR	180	1/16 V V
R611	NRSA63J-221X	M.G.RESISTOR	220	1/16W					.,
R613	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R809	NRSA63J-221X	M.G.RESISTOR	220	1/16 V V
R614	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R810	NRSA63J-221X	M.G.RESISTOR	220	1/16 V V
NO 14	NR 5A03J-221A	W.G.RESISTON	220	1/1044					
		1			R811	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R615	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R812	NRSA63J-221X	M.G.RESISTOR	220	1/16 W
R616	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R813	NRSA63J-221X	M.G.RESISTOR	220	1/16 W
R617	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R814	NRSA63J-221X	M.G.RESISTOR	220	1/16 W
R618	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R815	NRSA63J-221X	M.G.RESISTOR	220	1/16 V V
R619	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R816	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R620	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R817	NRSA63J-221X	M.G.RESISTOR	220	1/16
			220					220	
R621	NRSA63J-221X	M.G.RESISTOR		1/16W	R818	NRSA63J-221X	M.G.RESISTOR	220	1/16 W
R622	NRSA63J-221X	M.G.RESISTOR	220	1/16W					
R623	NRSA63J-221X	M.G.RESISTOR	220	1/16W				1	
R624	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C101	NEH91CM-106X	E.CAPACITOR	10	1 6 V
			1 .		C102	NEH91CM-106X	E.CAPACITOR	10	1 6 V
R625	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C103	NEH91CM-226X	E.CAPACITOR	22	16V
R626	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C104	NEH91CM-106X	E.CAPACITOR	10	16V
R627	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C105	NEH91CM-106X	E.CAPACITOR	10	16V
R628	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C105		E.CAPACITOR	22	16V
						NEH91CM-226X			
R629	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C107	NEH91EM-475X	E.CAPACITOR	4.7	25V
R630	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C109	NDC21HJ-101X	CER.CAPACITOR	100p	5OV
R631	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C110	NDC21HJ-101X	CER.CAPACITOR	100p	5 O V
R632	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C111	NEH91CM-106X	E.CAPACITOR	10	1 6 V
R633	NRSA63J-221X	M.G.RESISTOR	220	1/16W	1				
R634	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C112	NEH91CM-226X	E.CAPACITOR	22	16V
	. 11 10/1000-22 1/	THE STREET	1220	1/1044	C113	NEH91CM-106X	E.CAPACITOR	10	16V
Dear	NID CARO LOCAL	M C DECICTOR	220	1/40/4/					
R635	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C114	NEH91CM-106X	E.CAPACITOR	10	16V
R636	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C115	NCB21HK-393X	CER.CAPACITOR	0.039	5OV
R637	NRSA02J-0R0X	M.G.RESISTOR	0	1/10W	C116	NCB21HK-393X	CER.CAPACITOR	0.039	5 O V
R638	NRSA02J-0R0X	M.G.RESISTOR	0	1/10W	C117	NEH91CM-476X	E.CAPACITOR	47	16V
R701	NRSA63J-OROX	M.G.RESISTOR	ō	1/16W	C118	NEH91CM-476X	E.CAPACITOR	47	16V
R702	NRSA63J-0R0X	M.G.RESISTOR	ő	1/16W	C119	NEH91CM-106X	E.CAPACITOR	10	16V
			0			NEH91CM-106X			
R703	NRSA63J-0R0X	M.G.RESISTOR	f -	1/16W	C120		E.CAPACITOR	10	16V
R724	NRSA63J-821X	M.G.RESISTOR	820	1/16W	C121	NEH91CM-106X	E.CAPACITOR	10	16V
R725	NRSA63J-821X	M.G.RESISTOR	820	1/16W					
R726	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C122	NEH91CM-106X	E.CAPACITOR	10	16V
			-		C123	NEH91CM-476X	E.CAPACITOR	47	16V
R728	NRSA63J-221X	M.G.RESISTOR	220.	1/16W	C124	NEH91CM-106X	E.CAPACITOR	10	·6V
R733		M.G.RESISTOR	220	1/16W	C125	NEH91CM-106X	E.CAPACITOR	10	
	NRSA63J-221X								. 6V
R734	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C126	NEH91CM-476X	E.CAPACITOR	47	16V
R735	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C127	NEH91CM-106X	E.CAPACITOR	10	16V
R736	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C128	NEH91CM-226X	E.CAPACITOR	22	·6V
R737	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C129	NEH91CM-106X	E.CAPACITOR	10	6V
R738	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C130	NEN21CM-106X	N.P.CAPACITOR	10	16V
R744	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C130	NEH91CM-476X	E.CAPACITOR	47	
R745					0131	TALLIS I CIVE-470X	E.CAFACITON	4'	16V
	NRSA63J-750X	M.G.RESISTOR	75	1/16W	- I	1	1	1	

Symbol No.	Part No.	Part Name	Description	
C132	NEN21CM-106X	N.P.CAPACITOR	10 1	6V
C133	NEH91CM-106X	E.CAPACITOR	10 1	6V
C134	NEH91CM-106X	E.CAPACITOR	10 1	6V
C135	NEH91CM-476X	E.CAPACITOR		6V
C136	NEH91CM-106X	E.CAPACITOR		6V
C137	NEH91CM-106X	E.CAPACITOR		6V
C140	NEH90JM-107X	E.CAPACITOR		3V
C141	NEH90JM-107X	E.CAPACITOR		3V
C142	NEH91CM-226X	E.CAPACITOR		6V 6V
C147	NEH91CM-476X	E.CAPACITOR	47 1	ov
C148	NEH91CM-106X	E.CAPACITOR	10 1	6V
C149	NEH91CM-106X	E.CAPACITOR		6V
C150	NEH91CM-476X	E.CAPACITOR		6V
C151	NEN21CM-106X	N.P.CAPACITOR	10 1	6V
C152	NEN21CM-106X	N.P.CAPACITOR		6V
C153	NEH91CM-476X	E.CAPACITOR		6V
C154	NEH91CM-476X	E.CAPACITOR		6V
C155	NEH91CM-476X	E.CAPACITOR		6V
C156	NEH91CM-106X	E.CAPACITOR		6V
C157	NEH91CM-106X	E.CAPACITOR	10 1	6V
C150	NEHO1CAA 106V	E.CAPACITOR	10 1	6V
C158 C159	NEH91CM-106X NEH91CM-106X	E.CAPACITOR		6V
C501	NCB31CK-104X	CER.CAPACITOR		6V
C502	NCB31CK-104X	CER.CAPACITOR		6V
C503	NCB31CK-104X	CER.CAPACITOR	0.1 1	6∨
C504	NCB31CK-104X	CER.CAPACITOR	0.1 1	6V
C505	NCB31CK-104X	CER.CAPACITOR		6V
C506	NCB31CK-104X	CER.CAPACITOR		6V
C507	NCB31CK-104X	CER.CAPACITOR		6V
C508	NEH91HM-105X	E.CAPACITOR	1 5	50V
	ALELIOALINA AGEV	E CARACITOR		50V
C509	NEH91HM-105X	E.CAPACITOR E.CAPACITOR		50V
C510 C511	NEH91HM-105X NEH91HM-105X	E.CAPACITOR		50V
C512	NCB31CK-104X	CER.CAPACITOR		167
C512	NCB31CK-104X	CER.CAPACITOR		167
C514	NCB31HK-103X	CER.CAPACITOR		50V
C515	NCB31CK-104X	CER.CAPACITOR		167
C516	NCB31CK-104X	CER.CAPACITOR		16V
C517	NCB31CK-104X	CER.CAPACITOR		16V
C518	NCB31CK-104X	CER.CAPACITOR	0.1	16V
	11000101110111	OED CADACITOD		
C519	NCB31CK-104X	CER.CAPACITOR		16V 50V
C520 C521	NCS31HJ-8R0X NCS31HJ-8R0X	CER.CAPACITOR	[* P	50V 50V
C522	NCB31CK-104X	CER.CAPACITOR		16V
C522	NCB31CK-104X	CER.CAPACITOR		16V
C524	NCB31CK-104X	CER.CAPACITOR	1 -	16V
C525	NCB31CK-104X	CER.CAPACITOR		16V
C526	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C527	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C528	NCB31CK-104X	CER.CAPACITOR	0.1	16V
	NODOLOU 1011	OED CADACITOD		
C529	NCB31CK-104X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR		16V 16V
C530 C531	NCB31CK-104X	CER.CAPACITOR		16V 16V
C531	NCB41CM-106X	CER.CAPACITOR	1	16V
C532	NCB41CM-106X	CER.CAPACITOR		16V
C533	NCB31CK-104X	CER.CAPACITOR	1	16V
C535	NEN71AM-336X	N.P.CAPACITOR		10V
C539	NCB31CK-104X	CER.CAPACITOR	1	16V
C540	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C541	NCB31CK-104X	CER.CAPACITOR	0.1	16V
	NODO4011 12 111	OFD CADACITOD		101/
C542	NCB31CK-104X	CER.CAPACITOR		16V
C543	NCB31CK-104X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR	1 -	16V 16V
C544 C545	NCB31CK-104X NCB31CK-104X	CER.CAPACITOR		16V
C546	NCB31CK-104X	CER.CAPACITOR		16V
C547	NCB31CK-104X	CER.CAPACITOR	1.	16V
C547	NCB31CK-104X	CER.CAPACITOR		16V
C549	NDC31HJ-331X	CER.CAPACITOR		50V
C550	NDC31HJ-331X	CER.CAPACITOR		50V
C551	NDC31HJ-331X	CER.CAPACITOR	330p	50V
				E01 /
C552	NDC31HJ-331X	CER.CAPACITOR	1	50V 50V
			1 4 41 10	
C553 C554	NDC31HJ-331X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR		16V

Symbol No.	Part No.	Part Name	Description
C555 C556 C557 C558 C559 C560 C561	NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NCB31CK-104X NDC31HJ-331X NDC31HJ-331X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	330p 50V 330p 50V 330p 50V 330p 50V 0.1 16V 330p 50V 330p 50V
C562 C563 C564 C565 C566 C567 C568 C569 C570 C571	NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NCB31CK-104X NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X NDC31HJ-331X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	330p 50V 330p 50V 330p 50V 0.1 16V 330p 50V 330p 50V 330p 50V 330p 50V 330p 50V 330p 50V 330p 50V
C701 C702 C703 C720 C721 C722 C723 C724 C725 C726	NCB21AK-105X NCB21AK-105X NCB31CK-223X NCB21AK-105X NCB21AK-105X NCB31CK-223X NCB31CK-223X NCB31CK-223X NCB31CK-223X NCB31CK-223X NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 10V 1 10V 0.022 16V 1 10V 0.022 16V 0.022 16V 0.022 16V 0.022 16V 0.022 16V 0.022 16V
C727 C728 C729 C730 C731 C732 C733 C734 C735 C736	NCB31CK-223X NCB31CK-223X NCB31CK-223X NEH90JM-476X NEH90JM-476X NCB31CK-223X NCB31CK-223X NCB31CK-223X NCB31CK-223X NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.022 16V 0.022 16V 0.022 16V 47 6.3V 47 6.3V 0.022 16V 4.7 25V 0.022 16V 0.022 16V 0.022 16V
C737 C738 C740 C742 C743 C745 C746 C757 C759 C760	NEH91EM-475X NCB31CK-473X NRSA63J-0R0X NCB31EK-103X NCB31EK-103X NCB31EK-103X NCB31CK-104X NCB31EK-103X NCB31EK-103X NCB31EK-103X NCB31EK-103X	E.CAPACITOR CER.CAPACITOR M.G.RESISTOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	4.7 25V 0.047 16V 0 1/16W 0.01 25V 0.01 25V 0.01 25V 0.01 16V 0.01 25V 0.01 25V 0.01 25V 0.01 25V
C762 C763 C764 C765 C766 C767 C768 C769 C770	NCB31EK-103X NCB31CK-104X NCB31CK-104X NCB31EK-103X NCB31CK-104X NEH71CM-106X NEH71CM-106X NCB31EK-103X NDC31HJ-101X NDC31HJ-101X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 25V 0.1 16V 0.01 25V 0.1 16V 0.01 25V 0.1 16V 10 16V 10 16V 0.01 25V 100p 50V
C772 C773 C774 C775 C776 C777 C778 C779 C780 C781	NDC31HJ-101X NEH91HM-105X NCB31CK-104X NDC31HJ-390X NDC31HJ-120X NCB31CK-104X NAT3112-500X NDC31HJ-180X NDC31HJ-180X NDC31HJ-180X NDC31HJ-681X	CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TRIM.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	100p 50V 1 50V 0.1 16V 39p 50V 12p 50V 0.1 16V 50p ONSCREEN 18p 50V 18p 50V 680p 50V
C782 C783	NDC31HJ-681X NDC31HJ-821X	CER.CAPACITOR CER.CAPACITOR	680p 50V 820p 50V
L501 L702	NRSA02J-0R0X NQL114K-220X	M.G.RESISTOR COIL	0 1/10W 22uH

6.13 SW.REG BOARD ASSEMBLY PARTS LIST 14 SLK2096-B0A(U)

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Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Descrip	tion
L703 L704	NQL024J-471X NQL024J-330X	COIL	470uH 33uH	Q101 Q102 Q103 Q104	2SK2632-CB14 2SD2144S/UVW/-T 2SC1740S/QRS/-T PU43351-3	FET TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM MATSUSHITA	
LC501	PGZ01972Z	LC FILTER		Q105	2SD2166/QRS/	TRANSISTOR	ВОНМ	
LC502	PGZ01972Z	LC FILTER	,	Q106	DTA114ESA-T	TRANSISTOR	ROHM	
LC503	PGZ01972Z	LC FILTER		Q107	2SC3616/MLK/-T	TRANSISTOR	NEC	
LC504	PGZ01972Z	LC FILTER		Q119	DTC114ESA-T	TRANSISTOR	ROHM	
LC505	PGZ01972Z	LC FILTER						
LC701 LC705	PGZ01972Z PGZ01972Z	LC FILTER	·	D100	AU01-T2	DIODE	CANIKENI	
LC703	PGZ01972Z	LC FILTER		D102 D103	AU01-T2	DIODE	SANKEN	
LC708	PGZ01972Z	LC FILTER		D103	1SS133K-T2	DIODE	ROHM	
LC709	PGZ01972Z	LC FILTER		D105	RD15ES/B2/-T2	ZENER DIODE	NEC	(U)
		•			RD27ES/B2/-T2	ZENER DIODE	NEC	(E)
LC710	PGZ01972Z	LC FILTER		D106	FML-12S	DIODE	SANKEN	
	-			D107	FML-12S	DIODE	SANKEN	
VEOA	NAV0000 004V	ODVOTAL	04.04001411	D108	RD15ES/B1/-T2	ZENER DIODE	NEC	
X501	NAX0320-001X	CRYSTAL	31.9488MHz	D109	FMB-24	DIODE	SANKEN	
				D110	RD6.8ES/B2/-T2 1SS133K-T2	ZENER DIODE DIODE	NEC ROHM	
CN101	QGF1012F1-20X	CONNECTOR	20PIN	1 5,,,	133133N-12	DIODE	NONW	
	QGA1501F2-10W	CONNECTOR	10PIN	D112	1SS133K-T2	DIODE	ROHM	
		CONNECTOR	22PIN	D113	FMB-24	DIODE	SANKEN	
		CONNECTOR	3PIN	D114	10E6-FA8	DIODE	INTER	
	QGF1012F1-20X	CONNECTOR	20PIN	D115	10E6-FA8	DIODE	INTER	
		CONNECTOR	24PIN	D116	10E6-FA8	DIODE	INTER	
CN504	QGF1012F1-16X QGA2001F2-06X	CONNECTOR	16PIN	D117	10E6-FA8	DIODE	INTER	
	QGA2001F2-06X	CONNECTOR.	6PIN 7PIN	D118	SB140L-6395	DIODE	SANYO	
		CONNECTOR	12PIN	D120	RD5.1ES/B2/-T2 RD6.2ES/B1/-T2	ZENER DIODE ZENER DIODE	NEC NEC	
	CG/1200112 12/	CONTRACTON	12111	D121	RD13ES/B3/-T2	ZENER DIODE	NEC	
CN508	QGA1501F2-08W	CONNECTOR	8PIN		11.0 1020,00, 12	ZEINEN DIODE	1120	
CN701	QGA1501F2-06W	CONNECTOR	6PIN	1				
i				▲PC101	PC123FY2	I.C(PH COUPLER)		
D101	NN70000 001V	TECT DOINT	TD:01 700	11				
P101	NNZ0009-001X	TEST POINT	TP101-708	P100	OBE444 1404V	CAR RECIETOR	4001	410411
				R103	ORE141J-124Y	CAR.RESISTOR	120k	1/4// (
K501	PGZ00627Z	FERRITE BEADS		R104	QRE141J-224Y QRE141J-124Y	CAR.RESISTOR CAR.RESISTOR	220k 120k	1/4// (
K502	PGZ00627Z	FERRITE BEADS		11104	QRE141J-224Y	CAR.RESISTOR	220k	1/4VV (
K701	SCV2662-027	FERRITE BEADS		R105	QRE141J-683Y	CAR.RESISTOR	68k	1/4//
				R106	QRE121J-331Y	CAR.RESISTOR	330	1/2//
				R107	QRE141J-224Y	CAR.RESISTOR	220k	1/4//
VA501	PGZ00753	CER.VARISTOR		R108	QRT01DJ-R39X	M.F.RESISTOR	0.39	11/1/
				R109	QRE141J-681Y	CAR.RESISTOR	680	1/4//
				R110	QRE141J-821Y	CAR.RESISTOR	820	1/4//
				R111 R112	QRE141J-152Y QRE141J-471Y	CAR.RESISTOR CAR.RESISTOR	1.5k 470	1/4VV 1/4VV
				"""	Q1121410-4711	CARLINESISTOR	1770	1/ -1 9 V
				R113	QRE141J-122Y	CAR.RESISTOR	1.2k	1/4VV
				R114	QRA14CF-3740Y	C.M.F.RESISTOR	374	1/4 // V
				R115	QRA14CF-4870Y	C.M.F.RESISTOR	487	1/4//
		,		R116 R118	QRE141J-122Y	CAR RESISTOR	1.2k	1/4//
			i	R119	QRE141J-101Y QRE141J-473Y	CAR.RESISTOR CAR.RESISTOR	100 47k	1/4//V 1/4//V
			1 .	R120	QRE141J-472Y	CAR.RESISTOR	4.7k	1/4//
				R164	QRG03GJ-683	O.M.F.RESISTOR	68k	3V/V
				R167	QRE141J-102Y	CAR.RESISTOR	1k	1/4/V
			•	R168	QRE141J-182Y	CAR.RESISTOR	1.8k	1/4//
				1 1				
				A C101	QFZ9037-333	EILAA CADACITOD	0.000	0513/
				▲C101	QFZ9037-333	FILM CAPACITOR FILM CAPACITOR	0.033	250 √ 250 √
				C103	QCZ9079-222	CER.CAPACITOR	2200p	250 ♥
		·		C105	QCZ9079-222	CER.CAPACITOR	2200p	250 √
				C108	QEZ0501-227	E.CAPACITOR	2200	200℃
					QEZ0379-107	E.CAPACITOR	100	400V
				C109	QCZ0212-472	CER.CAPACITOR	4700p	125V
	1			C110	QCZ0302-101Z	CER.CAPACITOR	100p	1000√
				C111	QEHC1HM-105Z	E.CAPACITOR	1	50V
				C112	QFV11HJ-104Z	FILM CAPACITOR	0.1	50 ~
				C114	QFLC1HJ-183Z	MYLAR CAPACITOR	0.018	50▼
	-			C115	QCS31HJ-271Z	CER.CAPACITOR	270p	50▼
				△C116	QCZ9079-222	CER.CAPACITOR	2200p	250
		1		C117	QETC1HM-474Z	E.CAPACITOR	0.47	250 √
				C118	QEMT1CM-827	E.CAPACITOR	820	16~
	1	1	1					
		1	1	C119	QEMT1CM-827	E.CAPACITOR	820	16❤

6.14 VIDEO I/O BOARD ASSEMBLY PARTS LIST 15 SLK2101-01-B0C(U)

SLK2101-01-A0C(E) 15

Symbol No.	Part No.	Part Name	Description	n
C121	QFN31HJ-103Z	M.F.CAPACITOR	0.01	50V
C122	QETC1CM-106Z	E.CAPACITOR	10	16V
			100	16V
C123	QETC1CM-107Z	E.CAPACITOR		
C124	QFN31HJ-103Z	M.F.CAPACITOR	0.01	50V
C10F	057046844077	E CADACITOR	100	16V
C125	QETC1CM-107Z	E.CAPACITOR	100	16V 16V
C126	QETC1CM-476Z	E.CAPACITOR	47	
C127	QFN31HJ-104Z	M.F.CAPACITOR	0.1	50V
C150	QETC1EM-227Z	E.CAPACITOR	220	25V
L101	QQL45AK-330	COIL	33uH	
RY101	QSK0107-001	RELAY		
CN101	QGA7901C1-02	CONNECTOR	2PIN	
CN102	QGA3901C1-02	CONNECTOR	2PIN	
CN103	QGA2001C1-03	CONNECTOR	3PIN	
CN104	QGA2001C1-12	CONNECTOR	12PIN	
	QGA2001C1-06	CONNECTOR	6PIN	
CN106		CONNECTOR	5PIN	
CN107	QGA2001C1-10	CONNECTOR	10PIN	
TP101	QNZ0352-001Z	TEST POINT	TP101-107	
△ CP103	ICP-N20-T	ICP		
		1		
ΔFC101	QNG0037-001Z	FUSE HOLDER		
△FC102	QNG0037-001Z	FUSE HOLDER		
△FC103	QNG0037-001Z	FUSE HOLDER		
 △ FC104	QNG0037-001Z	FUSE HOLDER		
HS101	PGZ02442	HEAT SINK	Q101,D106,D107	
.10101				
K101	QQR0678-001Z	FERRITE BEADS		
▲LF101	QQR0532-001	LINE FILTER		(U)
Δ	QQR0609-001	LINE FILTER		(E)
△LF102	QQR0881-001	LINE FILTER		
	2210001-001	mark Wins I Short Yould I		
▲ T101	QQT0275-001	POWER TRANSF.		
TB101	SQMX002-001Z	EARTH TERMINAL		
TB102	SQMX002-001Z	EARTH TERMINAL		
10102	J 4			
001	OVEDSESSOS	CCBENI	0101 0100 0103	
SC1	QYSDSF3008Z	SCREW	Q101,D106,D107	
SC2	PRD30072-99	STICKER	FOR F102	(U)
	PRD30072-100	STICKER	FOR F102	(E)
			1	
	1			
	1			
			1	
		<u> </u>		

Symbol	Part No.	Part Name	Description
No.			•
IC1 IC2	MM1117XF-X AN3916-/LF/	I.C.(M) I.C.(M)	MITSUMI MATSUSHITA
IC2	AN3916-/LF/ TC7S08FU-X	I.C.(M)	TOSHIBA
IC4	CXD2064Q	I.C.(M)	SONY
IC5	TC4W53FU-X	I.C.(M)	TOSHIBA
IC6	TC4094BF-X	I.C.(M)	TOSHIBA
IC8	MM1111XF-X	I.C.(M)	MITSUMI
IC9 IC10	MM1117XF-X CXA2019AQ	I.C.(M) I.C.(M)	MITSUMI SONY
IC10	TK16031AMTL	I.C.(M)	TOKO DENSHI
IC12	OPA658U-XE	I.C.(M)	BURR BROWN
IC13	TK16031AMTL	I.C.(M)	TOKO DENSHI
IC14 IC15	OPA658U-XE TK16031AMTL	I.C.(M) I.C.(M)	BURR BROWN TOKO DENSHI
IC16	OPA658U-XE	I.C.(M)	BURR BROWN
IC17	TC7S08FU-X	I.C.(M)	TOSHIBA
IC18	NJM1496V-X	I.C.(M)	JRC
IC19 IC20	TK16031AMTL OPA658U-XE	I.C.(M) I.C.(M)	TOKO DENSHI BURR BROWN
IC20	TC7SU04FU-X	I.C.(M)	TOSHIBA
IC22	NJM1496V-X	I.C.(M)	JRC
IC23 IC24	AD8011AR-X AD8011AR-X	I.C.(M) I.C.(M)	ANALOG DEVICES ANALOG DEVICES
IC24	AD8011AR-X	I.C.(M)	ANALOG DEVICES
IC26	MM1113XF-X	I.C.(M)	MITSUMI
IC27	MM1111XF-X	I.C.(M)	MITSUMI
IC28	MM1113XF-X	I.C.(M)	MITSUMI
IC29 IC30	MM1111XF-X AD817AR-X	I.C.(M) I.C.(M)	MITSUMI ANALOG DEVICES
IC30	AD817AR-X	I.C.(M)	ANALOG DEVICES
			A ALTOLINAL
IC32 IC33	MM1113XF-X MM1113XF-X	I.C.(M) I.C.(M)	MITSUMI MITSUMI
IC33	NJM2538V-X	I.C.(M)	JRC
IC35	TC7S08FU-X	I.C.(M)	TOSHIBA
IC36	MM1117XF-X	I.C.(M)	MITSUMI
IC37 IC38	MM1117XF-X OPA658U-XE	I.C.(M) I.C.(M)	MITSUMI BURR BROWN
IC38	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC40	MM1117XF-X	I.C.(M)	MITSUMI
IC41	TC7S08FU-X	I.C.(M)	TOSHIBA
IC42	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC43	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC44	TC4W53F-X	I.C.(M)	TOSHIBA
IC45 IC46	AD817AR-X AN77L03M-X	I.C.(M) I.C.(M)	ANALOG DEVICES
IC46	UPC2384GA	I.C.(M)	NEC
IC48	TC74VHC541FT-X	I.C.(M)	TOSHIBA
IC49	TC4W53F-X	I.C.(M)	TOSHIBA
IC50	UPC78L05T-X TC74VHC157FT-X	I.C.(M) I.C.(M)	NEC
IC51	10/44/10/0/6/-X	1.C.(IVI)	TOSHIBA
IC52	TC7W04FU-X	I.C.(M)	TOSHIBA
1C53	JCS0027 TC74VHC541FT-X	I.C.(M)	JVC
IC55 IC56	TC74VHC541F1-X	I.C.(M) I.C.(M)	TOSHIBA TOSHIBA
IC57	MC74HC4046AF-X	I.C.(M)	MOTOROLA
IC58	MM1117XF-X	I.C.(M)	MITSUMI
IC59	LMC6082IM-X	I.C.(M)	NATIONAL SEMICO
IC60 IC61	TC74HC4538AFS-X UPC812G2-X	I.C.(M) I.C.(M)	TOSHIBA INEC
IC62	TC7SU04FU-X	I.C.(M)	ITOSHIBA
IC63 IC64	AD8011AR-X LM1881M-X	I.C.(M) I.C.(M)	ANALOG DEVICES NATIONAL SEMICO
IC65	TC4W53FU-X	I.C.(M)	TOSHIBA
1C66	TC7S14FU-X	I.C.(M)	TOSHIBA
IC67	TC7SU04FU-X	1.C.(M)	TOSHIBA
IC69 IC70	SN74LV125APW-X TC7SU04FU-X	1.C.(M) 1.C.(M)	TEXAS TOSHIBA
IC70	TC4W53FU-X	I.C.(M)	TOSHIBA
IC72	TC4W53FU-X	I.C.(M)	TOSHIBA
IC73	LM1881M-X	I.C.(M)	NATIONAL SEMICO
IC74	TC4W53FU-X	I.C.(M)	TOSHIBA
IC75	DS90LV031ATM-X	I.C.(M)	NATIONAL SEMICO
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VIDEO I/O	VI	DI	ΕO	ı I.	10
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Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description '
Q1	2SC4617/RS/-X	TRANSISTOR	ROHM	Q217	2SC4617/RS/-X	TRANSISTOR	ROHM
Q2	2SC4617/RS/-X	TRANSISTOR	ROHM	Q218	2SC4617/RS/-X	TRANSISTOR	ROHM
Q3	2SC4617/RS/-X	TRANSISTOR	ROHM	Q219	2SC4617/RS/-X	TRANSISTOR	ROHM
Ω4	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q220	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q5	2SC4617/RS/-X	TRANSISTOR	ROHM	Q221	2SA1774/QRS/-X	TRANSISTOR	ROHM
Ω6	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q222	2SC4617/RS/-X	TRANSISTOR	ROHM
Ω7	2SA1774/QRS/-X	TRANSISTOR	ROHM	0223	2SC4617/RS/-X	TRANSISTOR	ROHM
Q8	2SA1774/QRS/-X	TRANSISTOR	ROHM				
Q9	2SC4617/RS/-X	TRANSISTOR	ROHM	Q224	2SK663/QR/-X	FET	MATCHICHITA III
Q10	2SC4617/RS/-X	TRANSISTOR	ROHM				MATSUSHITA (U)
410	2304017/113/-/	INAMOSTOR	NOMIVI	Q225	2SA1774/QRS/-X	TRANSISTOR	ROHM
				Q226	2SC4617/RS/-X	TRANSISTOR	ROHM
Q11	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q227	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q12	2SC4617/RS/-X	TRANSISTOR	ROHM	Q228	2SC4617/RS/-X	TRANSISTOR	ROHM
Q13	2SC4617/RS/-X	TRANSISTOR	ROHM	Q229	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q14	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q230	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q15	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q231	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q16	2SA.1774/QRS/-X	TRANSISTOR	ROHM	Q232	2SC4617/RS/-X	TRANSISTOR	ROHM
Q17	2SC4617/RS/-X	TRANSISTOR	ROHM	0233	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q18	2SC4617/RS/-X	TRANSISTOR	ROHM	0233	23A1774/QR3/-A	INANSISTON	NORIVI
				0004			
Q19	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q234	2SC4617/RS/-X	TRANSISTOR	ROHM
Q20	2SC4617/RS/-X	TRANSISTOR	ROHM	Q235	2SC4617/RS/-X	TRANSISTOR	ROHM
				Q236	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q21	2SC4617/RS/-X	TRANSISTOR	ROHM	Q237	2SC4617/RS/-X	TRANSISTOR	ROHM
Q22	2SC4617/RS/-X	TRANSISTOR	ROHM	Q238	2SJ364/QR/-X	FET	MATSUSHITA
Q23	2SC4617/RS/-X	TRANSISTOR	ROHM	Q239	2SC4617/RS/-X	TRANSISTOR	вонм
Q24	2SC4617/RS/-X	TRANSISTOR	ROHM	Q240	2SC4617/RS/-X	TRANSISTOR	ROHM
Q25	2SC4617/RS/-X	TRANSISTOR	ROHM	Q240	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q26			ROHM				
	2SA1774/QRS/-X	TRANSISTOR		Q242	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q27	2SC4617/RS/-X	TRANSISTOR	ROHM	Q243	2SC4617/RS/-X	TRANSISTOR	ROHM
Q101	2SA1774/QRS/-X	TRANSISTOR	ROHM				
Q102	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q244	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q103	2SC4617/RS/-X	TRANSISTOR	ROHM	Q245	2SK663/QR/-X	FET	MATSUSHITA
			.1	Q301	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q104	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q302	2SA1774/QRS/-X	TRANSISTOR	ROHM
	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q303	2SC4617/RS/-X	TRANSISTOR	ROHM
	2SC4617/RS/-X	TRANSISTOR	вонм	Q304	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q107	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q305			
Q107					2SA1774/QRS/-X	TRANSISTOR	ROHM
	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q307	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q109	2SA1774/QRS/-X	TRANSISTOR	ROHM	Q308	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q110	2SC4617/RS/-X	TRANSISTOR	ROHM	- 1			
Q111	2SC4617/RS/-X	TRANSISTOR	ROHM	- 1			
Q113	2SC4617/RS/-X	TRANSISTOR	ROHM	D1	DAN202U-X	DIODE	ROHM
Q115	2SC4617/RS/-X	TRANSISTOR	ROHM .	D2	SVC341/L/-X	VARI CAPA DIODE	SANYO
			1	D3	MA143A-X	DIODE	MATSUSHITA
Q116	2SA1774/QRS/-X	TRANSISTOR	ROHM	D4	MA143A-X	DIODE	MATSUSHITA
Q117	2SA1774/QRS/-X	TRANSISTOR	ROHM	D5	DAN202U-X	DIODE	ROHM
Q118		TRANSISTOR	ROHM				
	2SC4617/RS/-X			D6	MA742-X	DIODE	MATSUSHITA
Q119	2SC4617/RS/-X	TRANSISTOR	ROHM	D7	MA335-X	DIODE	MATSUSHITA
Q120	2SA1774/QRS/-X	TRANSISTOR	ROHM	D8	MA335-X	DIODE	MATSUSHITA
Q121	2SC4617/RS/-X	TRANSISTOR	ROHM	D9	MA143A-X	DIODE	MATSUSHITA
Q122	2SJ364/QR/-X	FET	MATSUSHITA	D10	MA143A-X	DIODE	MATSUSHITA
Q123	2SA1774/QRS/-X	TRANSISTOR	ROHM				
Q124	2SA1774/QRS/-X	TRANSISTOR	ROHM	D11	MA143A-X	DIODE	MATSUSHITA
Q125	2SC4617/RS/-X	TRANSISTOR	ROHM	D12	MA143A-X	DIODE	MATSUSHITA
				D13	MA143A-X	DIODE	MATSUSHITA
Q126	2SC4617/RS/-X	TRANSISTOR	вонм	D14	MA143A-X	DIODE	
Q127	2SA 1774/QRS/-X	TRANSISTOR	ROHM	D15	MA143A-X	DIODE	MATSUSHITA
Q128	2SC4617/RS/-X	TRANSISTOR	ROHM				MATSUSHITA
				D16	MA143A-X	DIODE	MATSUSHITA
Q129	2SJ364/QR/-X	FET	MATSUSHITA	D17	MA143A-X	DIODE	MATSUSHITA
Q130	2SC4617/RS/-X	TRANSISTOR	ROHM	D18	MA143A-X	DIODE	MATSUSHITA
Q131	2SA1774/QRS/-X	TRANSISTOR	ROHM	D19	MA143A-X	DIODE	MATSUSHITA
Q132	2SC4617/RS/-X	TRANSISTOR	ROHM	D20	MA143A-X	DIODE	MATSUSHITA
Q133	2SA 1774/QRS/-X	TRANSISTOR	ROHM	1			
Q201	2SK663/QR/-X	FET	MATSUSHITA	D21	MA143A-X	DIODE	MATSUSHITA
Q202	2SC4617/RS/-X	TRANSISTOR	ROHM				
Q203	25 A 1774 / ODELY	TRANSISTOR	ROHM	P4	NIDCAGOD 154V	M.C. DECICTOR	1100
	2SA1774/QRS/-X	TRANSISTOR		R1	NRSA63D-151X	M.G.RESISTOR	150 1/16W
Q204	2SK663/QR/-X	FET	MATSUSHITA	R2	NRSA63D-151X	M.G.RESISTOR	150 1/16W
Q205	2SC4617/RS/-X	TRANSISTOR	ROHM	R3	NRSA63D-333X	M.G.RESISTOR	33k 1/16W
Q206	2SA1774/QRS/-X	TRANSISTOR	ROHM	R4	NRSA63D-273X	M.G.RESISTOR	27k 1/16W
	2SC4617/RS/-X	TRANSISTOR	ROHM	R5	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W
Q207	1000 *** 7 100 (1)	TRANSISTOR	ROHM	R6	NRSA63D-151X	M.G.RESISTOR	150 1/16W
Q207 Q208	2SC4617/RS/-X		ROHM	R7	NRSA63D-151X	M.G.RESISTOR	150 1/16W
	2SC4617/RS/-X 2SC4617/RS/-X	TRANSISTOR				M.G.RESISTOR	
Q208 Q209	2SC4617/RS/-X		ROHM I	I K8	I INDOADOLASSA		133k 1/16\\\/
Q208 Q209 Q210	2SC4617/RS/-X 2SA1774/QRS/-X	TRANSISTOR	ROHM	R8	NRSA63D-333X		33k 1/16W
Q208 Q209 Q210 Q211	2SC4617/RS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X	TRANSISTOR TRANSISTOR	ROHM	R9	NRSA63D-273X	M.G.RESISTOR	27k 1/16W
Q208 Q209 Q210	2SC4617/RS/-X 2SA1774/QRS/-X	TRANSISTOR					
Q208 Q209 Q210 Q211 Q212	2SC4617/RS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X	TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM	R9 R10	NRSA63D-273X NRSA63D-152X	M.G.RESISTOR M.G.RESISTOR	27k 1/16W 1.5k 1/16W
Q208 Q209 Q210 Q211 Q212	2SC4617/RS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X DTC144EUA-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM	R9 R10 R11	NRSA63D-273X NRSA63D-152X NRSA63D-151X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	27k 1/16W 1.5k 1/16W 150 1/16W
Q208 Q209 Q210 Q211 Q212	2SC4617/RS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X 2SA1774/QRS/-X	TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM	R9 R10	NRSA63D-273X NRSA63D-152X	M.G.RESISTOR M.G.RESISTOR	27k 1/16W 1.5k 1/16W

Symbol No.	Part No.	Part Name	Description
R14	NRSA63D-273X	M.G.RESISTOR	27k 1/16W
R15	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W
R16	NRSA63D-105X	M.G.RESISTOR	1M 1/16W
R17	NRSA63D-105X	M.G.RESISTOR	1M 1/16W
R18	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W
R19	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W
R20	NRSA63D-105X	M.G.RESISTOR	1M 1/16W
R21	NRSA63D-332X	M.G.RESISTOR	3.3k 1/16W
R22	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R23	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R24	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R25	NRSA63D-181X	M.G.RESISTOR	180 1/16W
R27	NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 1/16W 1/16W
R28 · R29	NRSA63D-101X NRSA63D-122X	M.G.RESISTOR	1.2k 1/16W
R30	NRSA63D-122X	M.G.RESISTOR	100 1/16W
R31	NRSA63D-101X	M.G.RESISTOR	1k 1/16W
R32	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R33	NRSA63D-101X	M.G.RESISTOR	100 1/16W
R34	NRSA63D-101X	M.G.RESISTOR	100 1/16W
R35	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R36	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R37	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R38	NRSA63D-331X	M.G.RESISTOR	330 1/16W
R39	NRSA63J-621X	M.G.RESISTOR	620 1/16W
R40	NRSA63D-391X	M.G.RESISTOR	390 1/16W
R41	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
. R42	NRSA63D-331X	M.G.RESISTOR	330 1/16W 1k 1/16W
R43 R44	NRSA63D-102X NRSA63D-153X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 15k 1/16W
R44 R45	NRSA63D-163X NRSA63D-223X	M.G.RESISTOR	22k 1/16W
R46	NRSA63D-331X	M.G.RESISTOR	330 1/16W
R47	NRSA63D-331X	M.G.RESISTOR	1k 1/16W
R48	NRSA63D-101X	M.G.RESISTOR	100 1/16W
R49	NRSA63D-122X	M.G.RESISTOR	1.2k 1/16W (U)
	NRSA63D-102X	M.G.RESISTOR	1k 1/16W (E)
R50 R51	NRSA63D-181X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	180 1/16W 1k 1/16W
1			
R54	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R57	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R59	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 560 1/16W
R60 R61	NRSA63D-561X NRSA63D-563X	M.G.RESISTOR M.G.RESISTOR	560 1/16W 56k 1/16W
R62	NRSA63D-563X	M.G.RESISTOR	200 1/16W
R63	NRSA63D-201X	M.G.RESISTOR	200 1/16W
R64	NRSA63D-332X	M.G.RESISTOR	3.3k 1/16W
R65	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R66	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R67	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R68	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R69	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R70	NRSA63J-OROX	M.G.RESISTOR	0 1/16W
R71	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (U)
R72	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (E) 0 1/16W (E)
R79 R81	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W
R82	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (U)
R83	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
·R84	NRSA63J-OROX	M.G.RESISTOR	0 1/16W
R87	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R88	NRSA63D-331X	M.G.RESISTOR	330 1/16W
R89	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R90	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R91	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (U)
R92	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (E)
R93	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (E)
R94 R95	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W (U) 0 1/16W (E)
			0 1/16W (U)
R96	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W (U)
R97		M G RESISTOR	0 1/16W (F) 1
	NRSA63J-0R0X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	0 1/16W (E) 1k 1/16W

Symbol No.	Part No.	Part Name	Description	
R101	NRSA63D-223X	M.G.RESISTOR	22k 1/16W	
R102 R103	NRSA63D-223X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	22k 1/16W 1k 1/16W	
R104	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R105	NRSA63D-331X	M.G.RESISTOR	330 1/16W	
R106	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R107	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W ((E)
R108 R109	NRSA63D-331X NRSA63D-101X	M.G.RESISTOR M.G.RESISTOR	330 1/16W 100 1/16W	
R110	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W ((U)
R111	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R112 R113	NRSA63D-561X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	560 1/16W 1k 1/16W	
R114	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	(E)
R115	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W ((U)
R116	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	(E)
R117	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (
R118 R119	NRSA63D-331X NRSA63D-331X	M.G.RESISTOR M.G.RESISTOR	330 1/16W (330 1/16W	
R120	NRSA63D-681X	M.G.RESISTOR	680 1/16W	
R121 R122	NRSA63D-102X NRSA63D-223X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 22k 1/16W	
R123	NRSA63D-223X	M.G.RESISTOR	22k 1/16W	
R124	NRSA63D-101X	M.G.RESISTOR	100 1/16W	
R125	NRSA63D-101X	M.G.RESISTOR	100 1/16W	
R126	NRSA63D-101X	M.G.RESISTOR	100 1/16W	
R127 R128	NRSA63D-101X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	100 1/16W 0 1/16W	
R129	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R130 R131	NRSA63J-0R0X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 10k 1/16W	/ETA
MIST	NRSA63D-103X	M.G.RESISTOR	100 1/16W	
R132	NRSA63D-103X	M.G.RESISTOR	10k 1/16W	
R133	NRSA63D-683X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	68k 1/16W 0 1/16W	(E)
R134	NRSA63D-331X	M.G.RESISTOR	330 1/16W	
R135	NRSA63D-101X	M.G.RESISTOR	100 1/16W	
R136	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W	
R138	NRSA63D-102X NRSA63D-391X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 390 1/16W	
R140	NRSA63D-681X	M.G.RESISTOR	680 1/16W	
R141 R143	NRSA63D-102X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	11k 1/16W 11k 1/16W	
R144	NRSA63D-102X	M.G.RESISTOR	1k 1/16W 1k 1/16W	
R145	NRSA63D-181X	M.G.RESISTOR	180 1/16W	
R146 R147	NRSA63D-181X NRSA63D-181X	M.G.RESISTOR M.G.RESISTOR	180 1/16W 180 1/16W	
R148	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	A 11
R149	NRSA63D-561X	M.G.RESISTOR	560 1/16W	(0)
R150	NRSA63D-561X	M.G.RESISTOR	560 1/16W	
R152 R153	NRSA63D-104X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR	100k 1/16W 1/16W 1/16W	
R155	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	,0,
R156	NRSA63D-221X	M.G.RESISTOR	220 1/16W	
R157 R201	NRSA63D-221X NRSA63D-151X	M.G.RESISTOR M.G.RESISTOR	220 1/16W 150 1/16W	
R202	NRSA63D-151X	M.G.RESISTOR	150 1/16VV	
R203	NRSA63D-103X	M.G.RESISTOR	10k 1/16W	
R204	NRSA63D-104X	M.G.RESISTOR	100k 1/16W	
R205 R206	NRSA63D-392X NRSA63D-392X	M.G.RESISTOR M.G.RESISTOR	3.9k 1/16W 3.9k 1/16W	
R207	NRSA63D-392X	M.G.RESISTOR	3.9k 1/16W	
R208 R209	NRSA63D-181X NRSA63D-392X	M.G.RESISTOR M.G.RESISTOR	180 1/16W 3.9k 1/16W	
R210	NRSA63D-103X	M.G.RESISTOR	10k 1/16V	
R211 R212	NRSA63D-103X NRSA63D-562X	M.G.RESISTOR M.G.RESISTOR	10k 1/16VV	
1				
R213 R214	NRSA63D-331X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	330 1/16W 1k 1/16W	
R215	NRSA63D-101X	M.G.RESISTOR	100 1/16W	
R216	NRSA63D-102X	M.G.RESISTOR	1k 1/16W	
R217 R218	NRSA63D-102X NRSA63D-105X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 1M 1/16W	
			.,	

[VIDEO I/O]

Symbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name		Description
R219	NRSA63D-105X	M.G.RESISTOR	1M	1/16W	R298	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R220	NRSA63D-181X	M.G.RESISTOR	180	1/16W	R299	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W
R221	NRSA63D-181X	M.G.RESISTOR	180	1/16W	R300	NRSA63D-103X	M.G.RESISTOR	10k	
R222	NRSA63D-123X	M.G.RESISTOR	12k	1/16W	11300	INITIOMOSD-103A	W.G.NESISTON	100	1/16W
1(222	11110A00D-120X	W.G.NESISTON	121	1/1000	R301	NRSA63D-332X	MAC DECICTOR	201	1/1014/
R223	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W	R302		M.G.RESISTOR M.G.RESISTOR	3.3k	1/16W
R224	NRSA63D-331X	M.G.RESISTOR	330	1/16W		NRSA63D-102X		1k	1/16W
R225	NRSA63D-561X	M.G.RESISTOR	560		R303	NRSA63D-123X	M.G.RESISTOR	12k	1/16W
				1/16W	R305	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R226	NRSA63D-101X	M.G.RESISTOR	100	1/16W	R307	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R227	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W	R308	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R228	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R309	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W (U)
R229	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W (E)
R230	NRSA63D-101X	M.G.RESISTOR	100	1/16W	R310	NRSA63D-393X	M.G.RESISTOR	39k	1/16W
R231	NRSA63D-101X	M.G.RESISTOR	100	1/16VV	R311	NRSA63D-393X	M.G.RESISTOR	39k	1/16W
R232	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16VV	R312	NRSA63D-271X	M.G.RESISTOR	270	1/16W
R233	NRSA63D-332X	M.G.RESISTOR	3. 3 k	1/16W	R313	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R234	NRSA63D-101X	M.G.RESISTOR	100	1/16W	R314	NRSA63D-222X	M.G.RESISTOR	2.2k	
R235	NRSA63D-221X	M.G.RESISTOR	220	1/16W	R315				1/16W
R237	NRSA63D-301X		300			NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
		M.G.RESISTOR		1/16W	R316	NRSA63D-331X	M.G.RESISTOR	330	1/16W
R238	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W	R317	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R239	NRSA63D-103X	M.G.RESISTOR	10k	1/16W	R318	NRSA63D-562X	M.G.RESISTOR	5.6k	1/16W
R240	NRSA63D-301X	M.G.RESISTOR	300	1/16W	R319	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R241	NRSA63D-221X	M.G.RESISTOR	220	1/16W	R320	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R242	NRSA63D-221X	M.G.RESISTOR	220	1/16W	R321	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R243	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W (U)	R322	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R245	NRSA63D-471X	M.G.RESISTOR	470	1/16W (E)	R323	NRSA63D-333X	M.G.RESISTOR	33k	1/16W
R246	NRSA63D-153X	M.G.RESISTOR	15k	1/16W	R324	NRSA63D-684X	M.G.RESISTOR	680k	1/16W
R247	NRSA63D-102X								
		M.G.RESISTOR	1k	1/16W	R325	NRSA63D-123X	M.G.RESISTOR	12k	1/16W (U)
R248	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R326	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R249	NRSA63D-223X	M.G.RESISTOR	22k	1/16W	R327	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R250	NRSA63D-333X	M.G.RESISTOR	33k	1/16W	R328	NRSA63D-561X	M.G.RESISTOR	560	1/16W
R251	NRSA63D-183X	M.G.RESISTOR	18k	1/16W	R329	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R252	NRSA63D-102X	M.G.RESISTOR	1k	1/16W (U)	R330	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R254	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R333	NRSA63D-221X	M.G.RESISTOR	220	1/16W
R255	NRSA63D-103X	M.G.RESISTOR	10k	1/16W	R334	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R256	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W	R335	NIDCACOD 100V	MA C DECISTOR	101	4.44.00.47.71.10
R257	NRSA63D-103X				nooo	NRSA63D-103X	M.G.RESISTOR	10k	1/16W (U)
		M.G.RESISTOR	10k	1/16W		NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W (E)
R258	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W	R336	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R259	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R337	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R260	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W	R338	NRSA63D-333X	M.G.RESISTOR	33k	1/16W
R261	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W	R340	NRSA63D-181X	M.G.RESISTOR	180	1/16W
R262	NRSA63D-123X	M.G.RESISTOR	12k	1/16W	R341	NRSA63D-181X	M.G.RESISTOR	180	1/16W
R264	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W	R342	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R266	NRSA63D-471X	M.G.RESISTOR	470	1/16W (U)	R343	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
1	NRSA63D-102X	M.G.RESISTOR	1k	1/16W (E)	R344	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R267	NRSA63D-223X	M.G.RESISTOR	22k	1/16W	R345	NRSA63D-223X	M.G.RESISTOR	22k	1/16VV
R268	NRSA63D-333X	M.G.RESISTOR	33k	1/16W	R346	NRSA63D-333X	M.G.RESISTOR	33k	1/16W
R269	NRSA63D-183X	M.G.RESISTOR	18k	1/16W	R347	NRSA63D-183X	M.G.RESISTOR		
R270	NRSA63D-102X	M.G.RESISTOR						18k	1/16W
R272	11001000000000	1	1k	1/16W (U)	R348	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R349	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R273	NRSA63D-103X	M.G.RESISTOR	10k	1/16W	R350	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W
R274	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W	R351	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R275	NRSA63D-103X	M.G.RESISTOR	10k	1/16W	R352	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R276	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W	R353	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R277	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R355	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R278	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W	R356	NRSA63D-123X	M.G.RESISTOR	12k	1/16W
R279	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W	R358	NRSA63D-222X	M G RESISTOR	2 21-	1/16/4/
R280	NRSA63D-162X	M.G.RESISTOR	12k	1/16W	R359		M.G.RESISTOR	2.2k	1/16W
R282	NRSA63D-332X	M.G.RESISTOR				NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R284			3.3k	1/16W	R361	NRSA63D-102X	M.G.RESISTOR	11k	1/16W
	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W (U)	R362	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W (U)
R285	NRSA63D-471X	M.G.RESISTOR	470	. 1/16W (U)		NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W (E)
Doca	NRSA63D-102X	M.G.RESISTOR	1k	1/16W (E)	R363	NRSA63D-271X	M.G.RESISTOR	270	1/16W
R286	NRSA63D-151X	M.G.RESISTOR	150	1/16W	R364	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R287	NRSA63D-151X	M.G.RESISTOR	150	1/16W	R365	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R288	NRSA63D-333X	M.G.RESISTOR	33k	1/16W	R366	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R289	NRSA63D-223X	M.G.RESISTOR	22k	1/16W	R367	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R290	NRSA63D-181X	M.G.RESISTOR	180	1/16VV	R368	NRSA63D-331X	M.G.RESISTOR	330	1/16W
R291	NRSA63D-181X	M.G.RESISTOR	180	1/16W	R369	NRSA63D-562X	M.G.RESISTOR	5.6k	1/16W
R292	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W	R370	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R293	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W	R371	NRSA63D-223X	M.G.RESISTOR	22k	1/16W (E)
R294	NRSA63D-223X	M.G.RESISTOR	22k	1/16W	R372	NRSA63D-823X	M.G.RESISTOR	82k	1/16W (E)
R295	NRSA63D-333X	M.G.RESISTOR	33k	1/16W	R373	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R296	NRSA63D-183X	M.G.RESISTOR	18k	1/16W	R374	NRSA63D-562X	M.G.RESISTOR	5.6k	1/16W
R297	NRSA63D-102X	M.G.RESISTOR	1k	1/16W	R375	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
L			J.,	1/1077	/3		IVI.G.NEGIGTOR	2.28	1/1000

Symbol No.	Part No.	Part Name	Description
R376	NRSA63D-333X	M.G.RESISTOR	33k 1/16W
R377	NRSA63D-684X	M.G.RESISTOR	680k 1/16W
R378	NRSA63D-123X	M.G.RESISTOR	12k 1/16W (U)
	NRSA63D-822X	M.G.RESISTOR	8.2k 1/16W (E)
R379	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W
R380	NRSA63D-561X	M.G.RESISTOR	560 1/16W
R381	NRSA63D-272X	M.G.RESISTOR	2.7k 1/16W
R382	NRSA63D-103X	M.G.RESISTOR	10k 1/16W
R383	NRSA63D-103X	M.G.RESISTOR	10k 1/16W
R384	NRSA63D-103X	M.G.RESISTOR	10k 1/16W 10k 1/16W
R385	NRSA63D-103X	M.G.RESISTOR	0 1/16W
R388	NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	220 1/16W
R389 R390	NRSA63D-221X NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R391	NRSA63D-103X	M.G.RESISTOR	10k 1/16W (U)
11001	NRSA63D-182X	M.G.RESISTOR	1.8k 1/16W (E)
R392	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R393	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R394	NRSA63D-821X	M.G.RESISTOR	820 1/16W
R395	NRSA63D-122X	M.G.RESISTOR	1.2k 1/16W
R396	NRSA63D-221X	M.G.RESISTOR	220 1/16W
R397	NRSA63D-122X	M.G.RESISTOR	1.2k 1/16W
R398	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R399	NRSA63D-102X	M.G.RESISTOR	1k 1/16W 0 1/16W (U)
R400	NRSA63J-0R0X NRSA63D-332X	M.G.RESISTOR M.G.RESISTOR	0 1/16W (U) 3.3k 1/16W (E)
R401	NRSA63D-152X	M.G.RESISTOR	1.5k 1/16W
R402	NRSA63D-104X	M.G.RESISTOR	100k 1/16W
R403	NRSA63D-153X	M.G.RESISTOR	15k 1/16W
R404	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R406	NRSA63D-183X	M.G.RESISTOR	18k 1/16W
R407	NRSA63D-104X	M.G.RESISTOR	100k 1/16W
R408	NRSA63D-104X	M.G.RESISTOR	100k 1/16W
R409	NRSA63D-104X	M.G.RESISTOR	100k 1/16W
R410 R411	NRSA63D-102X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 1k 1/16W
R412	NRSA63D-181X	M.G.RESISTOR	180 1/16W
R413	NRSA63D-181X	M.G.RESISTOR	180 1/16W
R414	NRSA63D-181X	M.G.RESISTOR	180 1/16W
R415	NRSA63D-181X	M.G.RESISTOR	180 1/16W
R416	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R417	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R418	NRSA63D-392X	M.G.RESISTOR	3.9k 1/16W
R419	NRSA63D-331X	M.G.RESISTOR	330 1/16W
R420 R421	NRSA63D-331X NRSA63D-392X	M.G.RESISTOR M.G.RESISTOR	330 1/16W 3.9k 1/16W
	NRSA63D-103X	M.G.RESISTOR	10k 1/16W
R422 R423	NRSA63D-562X	M.G.RESISTOR	5.6k 1/16W
R424	NRSA63D-331X	M.G.RESISTOR	330 1/16W
R425	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R426	NRSA63D-101X	M.G.RESISTOR	100 1/16W
R427	NRSA63D-122X	M.G.RESISTOR	1.2k 1/16W
R428	NRSA63D-181X	M.G.RESISTOR	180 1/16W
R429	NRSA63D-104X	M.G.RESISTOR	100k 1/16W (U)
R430	NRSA63D-221X	M.G.RESISTOR	220 1/16W
R431	NRSA63D-221X	M.G.RESISTOR	220 1/16W
R501	NRSA63D-820X	M.G.RESISTOR	82 1/16W (U) 220 1/16W (E)
R502	NRSA63D-221X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W
R502	NRSA63D-102X NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R504	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R505	NRSA63D-221X	M.G.RESISTOR	220 1/16W
R506	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R507	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R508	NRSA63D-101X	M.G.RESISTOR	100 1/16W
R509	NRSA63D-820X	M.G.RESISTOR	82 1/16W (U
R510	NRSA63D-221X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	220 1/16W (E
		M.G.RESISTOR	1k 1/16W
	NRSA63D-102X	M.G.RESISTOR	1k 1/16W
R511	MRSAR3D_103Y		
R512	NRSA63D-102X NRSA63D-221X	M.G.RESISTOR	220 1/16W
	NRSA63D-102X NRSA63D-221X NRSA63D-102X		

Symbol No.	Part No.	Part Name	Descrip	otion
R516	NRSA63D-101X	M.G.RESISTOR	100	1/16W
R517	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R518	NRSA63D-103X	M.G.RESISTOR	10k	1/16W 1/16W/
R519 R520	NRSA63D-103X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	10k 10k	1/16W 1/16W
R521	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R522	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R523 R524	NRSA63D-103X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	10k 10k	1/16W 1/16W
R524 R525	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R526	NRSA63D-750X	M.G.RESISTOR	75	1/16W
R527	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R528	NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	110k 10k	1/16W 1/16W
R529 R530	NRSA63D-103X NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R531	NRSA63D-750X	M.G.RESISTOR	75	1/16W
R532 R533	NRSA63D-102X NRSA63D-221X	M.G.RESISTOR M.G.RESISTOR	1k 220	1/16W 1/16W
R534	NRSA63D-820X	M.G.RESISTOR	82	1/16W (U)
	NRSA63D-221X	M.G.RESISTOR	220	1/16W (E)
R535	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R536 R537	NRSA63D-102X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	1k 1k	1/16W 1/16W
R538	NRSA63D-102X	M.G.RESISTOR	10k	1/16W
R539	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R540	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R541 R543	NRSA63D-103X NRSA63D-181X	M.G.RESISTOR M.G.RESISTOR	10k 180	1/16W 1/16W
R544	NRSA63D-181X NRSA63D-181X	M.G.RESISTOR M.G.RESISTOR	180	1/16W
R545	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R546	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R547 R548	NRSA63D-122X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	1.2k 10k	1/16W 1/16W
R549	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R550 R551	NRSA63D-101X NRSA63D-224X	M.G.RESISTOR M.G.RESISTOR	100 220k	1/16W 1/16W
R552	NRSA63D-103X	M.G.RESISTOR	10k	1/1 6 W
R553	NRSA63D-121X	M.G.RESISTOR	120	1/16W
R554 R555	NRSA63D-680X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	68 10k	1/16W 1/16W
R556	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R557	NRSA63J-225X	M.G.RESISTOR	2.2M	1/1 6 W
R558	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R559 R560	NRSA63J-0R0X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	0 10k	1/16W 1/16W
R561	NRSA63D-121X	M.G.RESISTOR	120	1/16W
R562	NRSA63D-680X	M.G.RESISTOR	68 127k	1/16W
R563 R564	NRSA63D-273X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR	127k 10k	1/16W 1/16W
R565	NRSA63D-222X	M.G.RESISTOR	2.2k	1/1 6 W
R566	NRSA63D-102X	M.G.RESISTOR	1k	1/1 6 W
R567 R568	NRSA63D-680X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	68 1k	1/16W 1/16W
R568 R569	NRSA63D-102X NRSA63D-105X	M.G.RESISTOR	1M	1/1 6 W
R570	NRSA63D-103X	M.G.RESISTOR	10k	1/1 6 W
R571	NRSA63D-103X	M.G.RESISTOR	10k	1/1 6 W
R572	NRSA63D-104X	M.G.RESISTOR	100k	1/16W
R573 R574	NRSA63D-222X NRSA63D-181X	M.G.RESISTOR M.G.RESISTOR	2.2k 180	1/16W 1/16W
R575	NRSA63D-181X	M.G.RESISTOR	180	1/16W
R576	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R577	NRSA63D-102X NRSA63D-331X	M.G.RESISTOR	1k	1/1 6W 1/1 6W
R578 R579	NRSA63D-331X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	330 1k	1/16VV 1/16W
R580	NRSA63D-101X	M.G.RESISTOR	100	1/1 6W
R581	NRSA63D-101X	M.G.RESISTOR	100	1/1 6W
R582 R583	NRSA63D-181X NRSA63D-392X	M.G.RESISTOR M.G.RESISTOR	180 3.9k	1/1 6W 1/1 6W
R584	NRSA63D-333X	M.G.RESISTOR	3.9k 33k	1/1 6VV 1/1 6W
R585	NRSA63D-333X	M.G.RESISTOR	33k	1/1 6W
R586	NRSA63D-102X	M.G.RESISTOR	1k	1/1 6W
R587 R588	NRSA63D-331X NRSA63D-104X	M.G.RESISTOR M.G.RESISTOR	330 100k	1/1 6W 1/1 6W
	1.110/1000-104/	15G.11.E0101011	/00K	1/1 000

[VIDEO I/O]

Symbol No.	Part No.	Part Name	Des	cription
R589	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R590	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R591	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R592	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R593	NRSA63D-224X	M.G.RESISTOR	220k	1/16W (E)
R597	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R598	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R599	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R600	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R601	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R602	NRSA63D-181X	M.G.RESISTOR	180.	1/16W
R603	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R604	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R605	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R606	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R607	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R608	NRSA63D-181X	M.G.RESISTOR	180	1/16W
R609	NRSA63D-181X	M.G.RESISTOR	180	1/16W
R610	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R611	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R612	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R613	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R614	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R615	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R616	NRSA63D-101X	M.G.RESISTOR	100	1/16W
R617	NRSA63D-101X	M.G.RESISTOR	100	1/16W
R618	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R619	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R620	NRSA63D-561X	M.G.RESISTOR	560	1/16W
R621	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R623	NRSA63D-331X	M.G.RESISTOR	330	1/16W
R624 R625	NRSA63D-471X NRSA63D-331X	M.G.RESISTOR M.G.RESISTOR	330	1/16W 1/16W
Beae	NIDE ACOD COOK	M C BESISTOR	0.01	
R626 R627	NRSA63D-392X NRSA63D-681X	M.G.RESISTOR	3.9k	1/16W
	1	M.G.RESISTOR	680	1/16W
R630	NRSA63D-471X	M.G.RESISTOR	470	1/16W
R631 R632	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R633	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R634	NRSA63D-472X NRSA63D-102X	M.G.RESISTOR M.G.RESISTOR	4.7k	1/16W 1/16W
R635	NRSA63D-102X	M.G.RESISTOR	lik	1/16W
R636	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R637	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R638	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R639	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R640	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R641	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R642	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R643	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R644	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R645	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R646	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R647	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R648	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R649	NRSA63D-181X	M.G.RESISTOR	180	1/16W (U)
-	NRSA63D-102X	M.G.RESISTOR	1k	1/16W (E)
R650	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R651	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R652	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R653	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R656	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R657	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R658	NRSA63D-750X	M.G.RESISTOR	75	1/16W
R659	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R660	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R661	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R662	NRSA63D-561X	M.G.RESISTOR	560	1/16W
R663	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R664	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R665	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
-	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R666				4/4/01/4/
R666 R667 R668	NRSA63D-104X NRSA63J-0R0X	M.G.RESISTOR	100k	1/16W

R669 NRSA63D-750X M.G.RESISTOR 75 1/16W R670 NRSA63D-103X M.G.RESISTOR 10k 1/16W R672 NRSA63D-103X M.G.RESISTOR 22k 1/16W R674 NRSA63D-00X M.G.RESISTOR 0 1/16W R676 NRSA63D-82ZX M.G.RESISTOR 0 1/16W R676 NRSA63D-80ZX M.G.RESISTOR 0 1/16W R670 NRSA63D-750X M.G.RESISTOR 75 1/16W R682 NRSA63D-750X M.G.RESISTOR 75 1/16W R702 NRSA63D-10X M.G.RESISTOR 0 1/16W R704 NRSA63D-10X M.G.RESISTOR 0 1/16W R706 NRSA63J-0ROX M.G.RESISTOR 0 1/16W R707 NRSA63J-0BOX M.G.RESISTOR 1 1/16W R708 NRSA63J-0BOX M.G.RESISTOR 1 1/16W R712 NRSA63J-0BOX M.G.RESISTOR 1 1/16W R713	Symbol No.	Part No.	Part Name	Descriptio	n
R670 R672 R674 R674 R675 R676 R676 R676 R676 R676 R676 R676		NRSA63D-750Y	M G RESISTOR	75 1/	16\A/
R706 NRSA63J-0ROX M.G.RESISTOR 0 1/16W R707 NRSA63D-102X M.G.RESISTOR 1k 1/16W R708 NRSA63D-561X M.G.RESISTOR 560 1/16W R712 NRSA63J-0ROX M.G.RESISTOR 10k 1/16W R713 NRSA63D-103X M.G.RESISTOR 10k 1/16W R714 NRSA63D-103X M.G.RESISTOR 10k 1/16W R715 NRSA63D-103X M.G.RESISTOR 10k 1/16W R716 NRSA63D-103X M.G.RESISTOR 10k 1/16W R716 NRSA63D-472X M.G.RESISTOR 1/16W 1/16W R718 NRSA63D-472X M.G.RESISTOR 4.7k 1/16W R720 NRSA63D-472X M.G.RESISTOR 4.7k 1/16W R721 NRSA63D-472X M.G.RESISTOR 4.7k 1/16W R722 NRSA63D-472X M.G.RESISTOR 4.7k 1/16W R721 NRSA63D-470X M.G.RESISTOR 0 1/16W	R670 R672 R674 R675 R676 R680 R682 R683 R702	NRSA63D-103X NRSA63D-223X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63D-391X NRSA63D-750X NRSA63D-750X NRSA63D-750X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/ 22k 1/ 0 1/ 8.2k 1/ 0 1/ 390 1/ 75 1/ 75 1/ 0 1/	16W 16W 16W 16W (U) 16W 16W 16W 16W
R719	R706 R707 R708 R709 R712 R713 R714 R715	NRSA63J-0R0X NRSA63D-102X NRSA63D-561X NRSA63D-561X NRSA63J-0R0X NRSA63D-103X NRSA63D-103X NRSA63D-473X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 1/ 1k 1/ 560 1/ 560 1/ 0 1/ 10k 1/ 47k 1/	16W 16W 16W 16W 16W 16W 16W
R731 NRSA63J-OROX M.G.RESISTOR 0 1/16W R732 NRSA63J-OROX M.G.RESISTOR 0 1/16W R734 NRSA63D-333X M.G.RESISTOR 33k 1/16W R747 NRSA63D-101X M.G.RESISTOR 100 1/16W R748 NRSA63D-101X M.G.RESISTOR 100 1/16W R749 NRSA63D-101X M.G.RESISTOR 100 1/16W R750 NRSA63D-101X M.G.RESISTOR 100 1/16W R755 NRSA63D-10X M.G.RESISTOR 0 1/16W R756 NRSA63D-101X M.G.RESISTOR 100 1/16W R757 NRSA63D-101X M.G.RESISTOR 100 1/16W R758 NRSA63D-103X M.G.RESISTOR 100 1/16W R759 NRSA63D-103X M.G.RESISTOR 10k 1/16W R760 NRSA63D-103X M.G.RESISTOR 10k 1/16W R761 NRSA63D-103X M.G.RESISTOR 10k 1/16W	R719 R720 R721 R722 R723 R725 R727 R728	NRSA63D-471X NRSA63D-333X NRSA63J-0R0X NRSA63J-0R0X NRSA63D-101X NRSA63D-221X NRSA63D-103X NRSA63D-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	470 1/ 133k 1/ 0 1/ 0 1/ 100 1/ 1220 1/ 10k 1/ 10k 1/	16W 16W 16W 16W 16W 16W 16W
R758 NRSA63D-101X M.G.RESISTOR 100 1/16W R759 NRSA63D-103X M.G.RESISTOR 10k 1/16W R760 NRSA63D-103X M.G.RESISTOR 10k 1/16W R761 NRSA63D-103X M.G.RESISTOR 10k 1/16W R762 NRSA63D-103X M.G.RESISTOR 10k 1/16W R763 NRSA63D-103X M.G.RESISTOR 10k 1/16W R763 NRSA63D-563X M.G.RESISTOR 10k 1/16W R764 NRSA63D-563X M.G.RESISTOR 0 1/16W R765 NRSA63D-563X M.G.RESISTOR 56k 1/16W R767 NRSA63D-563X M.G.RESISTOR 56k 1/16W R767 NRSA63D-563X M.G.RESISTOR 10k 1/16W R768 NRSA63D-563X M.G.RESISTOR 10k 1/16W R769 NRSA63D-105X M.G.RESISTOR 10k 1/16W R770 NRSA63D-105X M.G.RESISTOR 2.2k 1/16W	R731 R732 R734 R747 R748 R749 R750 R755	NRSA63J-0R0X NRSA63J-0R0X NRSA63D-333X NRSA63D-101X NRSA63D-101X NRSA63D-101X NRSA63D-101X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 1/ 0 1/ 33k 1/ 100 1/ 100 1/ 100 1/ 100 1/ 0 1/	16W 16W 16W 16W 16W 16W 16W 16W (E)
R769 NRSA63D-103X M.G.RESISTOR 10k 1/16/V R770 NRSA63D-222X M.G.RESISTOR 2.2k 1/16/V R771 NRSA63D-221X M.G.RESISTOR 560 1/16/V R772 NRSA63D-561X M.G.RESISTOR 560 1/16/V R773 NRSA63D-561X M.G.RESISTOR 560 1/16/V R774 NRSA63D-561X M.G.RESISTOR 560 1/16/V R775 NRSA63D-222X M.G.RESISTOR 250 1/16/V R778 NRSA63D-273X M.G.RESISTOR 27k 1/16/V R779 NRSA63D-333X M.G.RESISTOR 27k 1/16/V R780 NRSA63D-273X M.G.RESISTOR 27k 1/16/V R781 NRSA63D-104X M.G.RESISTOR 100k 1/16/V R782 NRSA63D-822X M.G.RESISTOR 6.8k 1/16/V R783 NRSA63D-122X M.G.RESISTOR 2.2k 1/16/V R784 NRSA63D-122X M.G.RESISTOR 100 1/16/V </td <td>R758 R759 R760 R761 R762 R763 R764 R765</td> <td>NRSA63D-101X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-563X NRSA63J-0R0X NRSA63J-0R0X NRSA63D-563X</td> <td>M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR</td> <td>100 1/ 10k 1/ 10k 1/ 10k 1/ 10k 1/ 10k 1/ 56k 1/ 56k 1/</td> <td>16W 16W 16W 16W 16W 16W</td>	R758 R759 R760 R761 R762 R763 R764 R765	NRSA63D-101X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-563X NRSA63J-0R0X NRSA63J-0R0X NRSA63D-563X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 1/ 10k 1/ 10k 1/ 10k 1/ 10k 1/ 10k 1/ 56k 1/ 56k 1/	16W 16W 16W 16W 16W 16W
R781 NRSA63D-104X M.G.RESISTOR 100k 1/16/V R782 NRSA63D-682X M.G.RESISTOR 6.8k 1/16/V R783 NRSA63D-222X M.G.RESISTOR 2.2k 1/16/V R784 NRSA63D-122X M.G.RESISTOR 1.2k 1/16/V R785 NRSA63D-101X M.G.RESISTOR 100 1/16/V R786 NRSA63D-222X M.G.RESISTOR 2.2k 1/16/V R787 NRSA63D-331X M.G.RESISTOR 330 1/16/V	R769 R770 R771 R772 R773 R774 R775 R778	NRSA63D-103X NRSA63D-222X NRSA63D-561X NRSA63D-561X NRSA63D-561X NRSA63D-561X NRSA63D-522X NRSA63D-222X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/ 2.2k 1/ 560 1/ 560 1/ 560 1/ 560 1/ 2.2k 1/ 27k 1/	16W 16W 16W 16W 16W 16W
R789 NRSA63D-684X M.G.RESISTOR 680k 1/16/V R790 NRSA63D-272X M.G.RESISTOR 2.7k 1/16/V	R781 R782 R783 R784 R785 R786 R787 R788 R789	NRSA63D-104X NRSA63D-682X NRSA63D-222X NRSA63D-122X NRSA63D-101X NRSA63D-222X NRSA63D-331X NRSA63D-682X NRSA63D-684X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100k 1/6.8k 1/2.2k 1/1.2k 1/7.20 1/2.2k 1/330 1/6.8k 1/680k 1/7	16W 16W 16W 16W 16W 16W 16W

Symbol No.	Part No.	Part Name	Des	cription
R791	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R792	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
		M.G.RESISTOR	4.7k	1/16W
R793	NRSA63D-472X		10k	1/16W
R794	NRSA63D-103X	M.G.RESISTOR	1	1/16W
R795	NRSA63D-102X	M.G.RESISTOR	1k	.,
R796	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R800	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R801	NRSA63D-104X	M.G.RESISTOR	100k	1/16W
R802	NRSA63D-221X	M.G.RESISTOR	220	1/16W
R803	NRSA63D-104X	M.G.RESISTOR	100k	1/16W
R804	NRSA63D-333X	M.G.RESISTOR	33k	1/16W
R805	NRSA63D-184X	M.G.RESISTOR	180k	1/16W
R808	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R809	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R810	NRSA63D-101X	M.G.RESISTOR	100	1/16W
R811	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R812	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R813	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R814	NRSA63D-101X	M.G.RESISTOR	100	1/16W
R815	NRSA63D-221X	M.G.RESISTOR	220	1/16W
R818	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
	NRSA63J-0R0X	M.G.RESISTOR	ő	1/16W
R821		M.G.RESISTOR	0	1/16W
R822	NRSA63J-0R0X		1 -	1/16W
R823	NRSA63D-105X	M.G.RESISTOR	1M	1/16W
R824	NRSA63J-0R0X	M.G.RESISTOR	0	
R825	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R826	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R827	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R828	NDC31HJ-102X	CER.CAPACITOR	1000	50V
R829	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R830	NRSA63D-684X	M.G.RESISTOR	680k	1/16W
R831	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R832	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R833	NRSA63D-183X	M.G.RESISTOR	18k	1/16W
R834	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R835	NRSA63D-101X	M.G.RESISTOR	100	1/16W
	NRSA63D-101X	M.G.RESISTOR	100	1/16W
R836		M.G.RESISTOR	100	1/16W
R837 R838	NRSA63D-101X NRSA63D-101X	M.G.RESISTOR	100	1/16W
Beso	NPSA62D-101Y	M.G.RESISTOR	100	1/16W
R839	NRSA63D-101X NRSA63D-101X	M.G.RESISTOR	100	1/16W
R840			0	1/16W
R841	NRSA63J-0R0X	M.G.RESISTOR		
R842	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
	N /D1 41 F 2020	TRIM DECISTOR	20k	AGC
VR1	NVP1415-203X	TRIM.RESISTOR	5k	Y/C Y
VR2	NVP1415-502X			B-Y DL
VR3	NVP1415-103X	TRIM.RESISTOR	10k	
VR4	NVP1415-103X	TRIM.RESISTOR	10k	R-Y DL
VR5	NVP1415-103X	TRIM.RESISTOR	10k	CPN DL1
VR6	NVP1415-103X	TRIM.RESISTOR	10k	CPN DL2
VR7	NVP1415-503X	TRIM.RESISTOR	50k	CPN LK1
VR8	NVP1415-503X	TRIM.RESISTOR	50k	CPN LK2
VR9	NVP1415-503X	TRIM.RESISTOR	50k	NOT USED
VR10	NVP1415-502X	TRIM.RESISTOR	5k	CPN LEV
VR11	NVP1415-503X	TRIM.RESISTOR	50k	VIDEO C
VR12	NVP1415-503X	TRIM.RESISTOR	50k	VIDEO Y
VR12	NVP1415-102X	TRIM.RESISTOR	1k	CPN Y
VR14	NVP1415-102X	TRIM.RESISTOR	2k	NOT USED
	NVP1415-202X	TRIM.RESISTOR	2k	fsc
VR15		TRIM.RESISTOR	2k	PB H
VR16	NVP1415-202X		100k	CH-2
VR17	NVP1415-104X	TRIM.RESISTOR	1 '	CH-2 CH-1
VR18	NVP1415-104X	TRIM.RESISTOR	100k	
VR19 VR20	NVP1415-202X NVP1415-202X	TRIM.RESISTOR TRIM.RESISTOR	2k 2k	B-Y LEV R-Y LEV
VR21	NVP1415-102X	TRIM.RESISTOR	1k	Y/C C
1 1000	NVP1415-202X	TRIM.RESISTOR	2k	EE H
VR22	NVP1415-501X	TRIM.RESISTOR	500	C OUT LEV
VR22 VR23	NVF1415-501X		1	
VR23				
	NEH71AM-107X	E.CAPACITOR	100	10V
VR23	NEH71AM-107X NEH71AM-107X	E.CAPACITOR	100	10V
VR23	NEH71AM-107X			

Symbol No.	Part No.	Part Name	Desc	ription
C5 C6 C7 C8 C9 C10	NEH91EM-475X NEH91EM-475X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR	4.7 4.7 0.01 0.01 0.01 100	25V 25V 50V 50V 50V 10V
C12 C13 C14 C15 C16 C17 C18 C19 C20 C21	NCB31HK-332X NCB31HK-103X NCB31CK-473X NEH91EM-475X NEH91EM-475X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	3300p 0.01 0.047 4.7 4.7 4.7 0.01 0.01 0.01	50V 50V 16V 25V 25V 25V 50V 50V 6.3V
C22 C23 C24 C25 C26 C27 C32 C33 C34 C35	NCB31HK-103X NCB31HK-103X NEH90JM-107X NEH71AM-107X NDC31HJ-102X NEH90JM-107X NCB31HK-103X NCB31HK-103X NEH90JM-107X NDC31HJ-102X	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 0.01 100 100 1000p 100 0.01 0.01 100 1000p	50V 50V 6.3V 10V 50V 6.3V 50V 6.3V 50V
C36 C37 C38 C39 C40 C41 C42 C43 C44 C45	NCB31CK-223X NCB31CK-104X NCB31CK-104X NEH71CM-106X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.022 0.1 0.1 10 0.1 0.1 0.1 0.1 0.1 0.1	16V 16V 16V 16V 16V 16V 16V 16V 16V
C46 C47 C48 C49 C50 C51 C52 C53 C54 C55	NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NEH90JM-107X NCB31HK-103X NCB31HK-103X NDC31HJ-120X NDC31HJ-120X NEH71AM-107X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 0.1 0.1 0.1 100 0.01 12p 12p 100	16V 16V 16V 16V 6.3V 50V 50V 50V 10V
C56 C57 C58 C59 C60 C61 C67 C68 C69 C70	NCB31HK-103X NCB31HK-103X NEH90JM-107X NCB31HK-103X NCB31HK-103X NEH90JM-107X NCB31HK-103X NDC31HJ-120X NDC31HJ-120X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 0.01 100 0.01 0.01 100 0.01 12p 12p 0.01	50V 50V 6.3V 50V 6.3V 50V 50V 50V 50V 50V
C71 C72 C73 C74 C75 C82 C83 C85 C86	NCB31HK-103X NEH90JM-476X NCB31HK-103X NCB31HK-103X NEH90JM-476X NCB31HK-103X NCB31HK-103X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X	CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 47 0.01 0.01 47 0.01 0.01 100p 100p	50V 6.3V 50V 50V 6.3V 50V 50V 50V 50V 50V
C88 C89 C101 C102 C103 C104 C105	NDC31HJ-101X QETC1AM-227Z NCB31HK-103X NCB31HK-103X NCB31CK-104X NCB31CK-104X NCB31CK-104X	CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	100p 220 0.01 0.01 0.1 0.1	50V 10V 50V 50V 16V 16V

IVIDEO I/O		

Symbol No.	Part No.	Part Name	1	Description	Symbol No.	Part No.	Part Name		Description
C106	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C186	NDC31HJ-470X	CER.CAPACITOR	47p	50V
C107	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C187	NBE21VM-224X	TAN.CAPACITOR	0.22	35V
C108	NEH91EM-475X	E.CAPACITOR	4.7	25V	C188	NCB31HK-103X	CER.CAPACITOR	0.01	50V
					C189	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C109	NEH91EM-475X	E.CAPACITOR	4.7	25V	C190	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C110	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C191	NEH71AM-107X	E.CAPACITOR	100	10V
C111	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C192	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C112	NEH91CM-476X	E.CAPACITOR	47	16V	C193	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C113	NEH71AM-107X	E.CAPACITOR	100	10V	C194	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C114	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C195	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C115	NCB31HK-103X	CER.CAPACITOR	0.01	50V					
C116	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C197	NEH71AM-107X	E.CAPACITOR	100	10V
C117	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C198			100	10V
						NEH71AM-107X	E.CAPACITOR		
C118	NEH71AM-107X	E.CAPACITOR	100	10V	C199	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	1			1	C200	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C119	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C204	NEH90JM-107X	E.CAPACITOR	100	6.3V
C120	NEH91EM-475X	E.CAPACITOR	4.7	25V	C205	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C121	NEH91HM-474X	E.CAPACITOR	0.47	50V	C206	NCB31HK-103X	CER.CAPACITOR	0.01	50V
			10.47						
C122	NEH91HM-105X	E.CAPACITOR		50V	C207	NEH90JM-107X	E.CAPACITOR	100	6.3V
C123	NCB31EK-472X	CER.CAPACITOR	4700p	25V	C208	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C124	NEH91HM-474X	E.CAPACITOR	0.47	50V	C209	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C125	NDC31HJ-101X	CER.CAPACITOR	100p	50V	i			i	
C126	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C210	NCB31CK-473X	CER.CAPACITOR	0.047	16V
		E.CAPACITOR							
C127	NEH91HM-105X		1	50V	C211	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C128	NEH91CM-476X	E.CAPACITOR	47	16V	C212	NDC31HJ-470X	CER.CAPACITOR	47p	50V
					C213	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C129	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C214	NDC31HJ-470X	CER.CAPACITOR	47p	50V (E
C130	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C215	NBE21VM-224X	TAN.CAPACITOR	0.22	35V
C131	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C216	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C132	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C217	NDC31HJ-5R0X	CER.CAPACITOR	5p	50V
C133	NCB31CK-104X	CER.CAPACITOR	0.1	16V	C218	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C134	NCB21AK-105X	CER.CAPACITOR	11	10V	C219	NCB31HK-103X	CER.CAPACITOR	0.01	5OV
C135	NCB21AK-105X	CER.CAPACITOR	11	10V	1		021110111111111111111111111111111111111	0.0	001
C136	NDC31HJ-150X	CER.CAPACITOR	1.5	50V (U)	C220	NCDALHE 100V	CER CARACITOR	0.01	E0\/
			15p			NCB31HK-103X	CER.CAPACITOR		50V
C138	NDC31HJ-150X	CER.CAPACITOR	15p	50V (E)	C221	NCB31HK-103X	CER.CAPACITOR	0.01	5OV
C139	NDC31HJ-471X	CER.CAPACITOR	470p	50V	C222	NCB31CK-473X	CER.CAPACITOR	0.047	16V
				1	C223	NCB31CK-473X	CER.CAPACITOR	0.047	1 6 V
C140	NEH71AM-107X	E.CAPACITOR	100	10V	C224	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C141	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C225	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C142	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C226	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C146	NEH90JM-107X	E.CAPACITOR	100	6.3V	C227	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C147	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C228	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C148	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C229	NEH90JM-476X	E.CAPACITOR	47	6.3V
C149	NCB31CK-473X	CER.CAPACITOR	0.047	16V	1	11211000111 17071	2.07.17.1017.011		0.01
					0000	NODGALIK AGOV	AFR CARACITOR	0.04	
C150	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C230	NCB31HK-103X	CER.CAPACITOR	0.01	5OV
C151	NEH90JM-107X	E.CAPACITOR	100	6.3V	C231	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C152	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C232	NCB31CK-473X	CER.CAPACITOR	0.047	16V
					C233	NEH90JM-476X	E.CAPACITOR	47	6.3V
C153	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C234	NCB31HK-103X	CER.CAPACITOR	0.01	5OV
C154	NEH71AM-107X		100	10V					
		E.CAPACITOR			C235	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C155	NCB31HK-103X	CER.CAPACITOR	0.01	. 50V	C236	NDC31HJ-330X	CER.CAPACITOR	33p	· 50V
C156	NCB31HK-103X	CER.CAPACITOR	0.01	50V .	C237	NDC31HJ-330X	CER.CAPACITOR	33p	5 O V
C160	NEH90JM-107X	E.CAPACITOR	100	6.3V	C238	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C161	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C252	NEH91HM-105X	E.CAPACITOR	1	5OV
C162	NCB31HK-103X	CER.CAPACITOR	0.01	50V	0202	110111111111111111111111111111111111111	2.0/11/10/10/1	1	501
					0004	MDCOALLLOOOV	CER CARACITOR	00-	
C163	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C301	NDC31HJ-330X	CER.CAPACITOR	33p	50V
C164	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C302	NDC31HJ-220X	CER.CAPACITOR	22p	5OV
C165	NEH90JM-107X	E.CAPACITOR	100	6.3V	C303	NDC31HJ-330X	CER.CAPACITOR	33p	5 O V
					C304	NDC31HJ-220X	CER.CAPACITOR	22p	5OV
C166	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C305	NEH71CM-106X	E.CAPACITOR	10	16V
								1	
C167	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C306	NEH71CM-106X	E.CAPACITOR	10	16V
C168	NEH71AM-107X	E.CAPACITOR	100	10V	C307	NEH71CM-106X	E.CAPACITOR	10	16V
C169	NEH71AM-107X	E.CAPACITOR	100	10V	C308	NEH71CM-106X	E.CAPACITOR	10	16V
C170	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C309	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C171	NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V					
					C310	NEH71CM-106X	E.CAPACITOR	10	16V
C172	NEH71AM-107X	E.CAPACITOR	100	10V	1.			1	
C173	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C311	NEH71CM-106X	E.CAPACITOR	10	16V
C174	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C312	NEH71CM-106X	E.CAPACITOR	10	16V
C175	NEH90JM-107X	E.CAPACITOR	100	6.3V	C313	NEH71CM-106X	E.CAPACITOR	10	16V
, 0			1.55	J.01	C314	NCB31HK-103X			
C170	NODOLLIIC 1001	CED CARACITOS	0.51				CER.CAPACITOR	0.01	50V
C176	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C315	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C177	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C316	NEH90JM-107X	E.CAPACITOR	100	6. 3 V
C178	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C317	NCB31HK-103X	CER.CAPACITOR	0.01	5OV
C179	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C318	NEH71CM-106X	E.CAPACITOR	10	
									16V
C180	NEH90JM-107X	E.CAPACITOR	100	6.3V	C319	NEH71CM-106X	E.CAPACITOR	10	16V
C181	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C320	NCB31HK-103X	CER.CAPACITOR	0.01	5 0 V
C182	NCB31HK-103X	CER.CAPACITOR	0.01	50V	1				
C183	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C321	NEH90JM-107X	E.CAPACITOR	100	6. 3 V
	NDC31HJ-470X	CER.CAPACITOR	47p	50V	C322	NCB31HK-103X	CER.CAPACITOR	0.01	
C194		I ULII.UMFMUHUN	1-1/P	50V				10.01	5ØV
C184 C185	NDC31HJ-220X	CER.CAPACITOR	22p	50V	C323	NCB31HK-103X	CER.CAPACITOR	0.01	5 Ø V

Symbol No.	Part No.	Part Name	Descript	ion
C324	NEH90JM-107X	E.CAPACITOR	100	6.3V
C325	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C326	NCB31CK-104X	CER.CAPACITOR	0.1	16V
	NCB31HK-103X		0.01	50V
C327		CER.CAPACITOR CER.CAPACITOR	0.01	50V
C328	NCB31HK-103X		0.01	50V
C329	NCB31HK-103X	CER.CAPACITOR		50V 50V
C340	NCB31HK-103X	CER.CAPACITOR	0.01	500
C341	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C342	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C343	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C344	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C345	NEH90JM-476X	E.CAPACITOR	47	6.3V
C346	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C347	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C348	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C349	NEH90JM-107X	E.CAPACITOR	100	6.3V
C350	NBE41DM-106X	TAN.CAPACITOR	10	20V
C351	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C352	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C353	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C354	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C355	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C356	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C357	QEDS0JM-108	E.CAPACITOR	1000	6.3V
C358	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C359	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C360	NCB31CK-104X	CER.CAPACITOR	0.1	16V
	NDEA1DIA 100Y	TANI CARACITOR	10	20V
C361 C362	NBE41DM-106X QEDS0JM-108	TAN.CAPACITOR E.CAPACITOR	1000	6.3V
C363	NCB31HK-103X	CER.CAPACITOR	0.01	50V
		CER.CAPACITOR	0.01	16V
C364	NCB31CK-104X	CER.CAPACITOR	0.01	50V
C366	NCB31HK-103X	CER.CAPACITOR	10	16V
C367	NCB41CM-106X	CER.CAPACITOR	0.01	50V
C368	NCB31HK-103X	E.CAPACITOR	47	16V
C369	NEH91CM-476X		0.01	50V
C370 C371	NCB31HK-103X NEH91CM-476X	CER.CAPACITOR E.CAPACITOR	47	16V
C374	NDC31HJ-270X	CER.CAPACITOR	27p	50V
C375	NDC31HJ-270X	CER.CAPACITOR	27p	50V
C376	NCB31HK-103X ·	CER.CAPACITOR	0.01	50V
C377	NEH90JM-107X	E.CAPACITOR	100	6.3V
C378	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C379	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C380	NEH90JM-107X	E.CAPACITOR	100	6.3V
C381	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C382 C383	NEH91EM-475X NEH91EM-475X	E.CAPACITOR E.CAPACITOR	4.7	25V 25V
ು ಶ3	INCHS I ENN'4/5X		7.7	234
C384	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C385	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C386	NEH90JM-107X	E.CAPACITOR	100	6.3V
C387	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C388	NEH91EM-475X	E.CAPACITOR	4.7	25V
C389	NEH91EM-475X	E.CAPACITOR	4.7	25V
C390	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C391	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C392	NEH90JM-107X	E.CAPACITOR	100	6.3V
C393	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C394	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C396	NDC31HJ-180X	CER.CAPACITOR	18p	50V
C397	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C398	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C399	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C400	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C401	NEH90JM-107X	E.CAPACITOR	100	6.3V
C402	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C403	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C404	NEH90JM-107X	E.CAPACITOR	100	6.3V
C405	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C406	NEH91HM-105X	E.CAPACITOR	1	50V
C407	NEH90JM-107X	E.CAPACITOR	100	6.3V
C408	NCB31HK-103X	CER.CAPACITOR	0.01	50V
		E.CAPACITOR	100	6.3V
C409	NEH90JM-107X	L.CAIACITOIT	7.00	0.0 .

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Symbol No.	Part No.	Part Name	Descrip	otion
C411	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C412 C413	NEH90JM-107X NCB31HK-103X	E.CAPACITOR CER.CAPACITOR	0.01	6.3V 50V
C414	NEH91EM-475X	E.CAPACITOR	4.7	25V
C415	NEH91EM-475X	E.CAPACITOR	4.7	25V
C416	NEH91EM-475X	E.CAPACITOR	4.7	25V
C417 C418	NDC31HJ-5R0X NDC31HJ-470X	CER.CAPACITOR CER.CAPACITOR	5p 47p	50V 50V
C418	NEH90JM-107X	E.CAPACITOR	100	6.3V
C420	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C421	NEH90JM-107X	E.CAPACITOR .	100	6.3V
C422 C423	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V
C424	NEH90JM-107X	E.CAPACITOR	100	6.3V
C425	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C426 C427	NCB31HK-103X	CER.CAPACITOR	0.01	50V 16V
C427	NCB41CM-106X NCB31HK-103X	CER.CAPACITOR	0.01	50V
C429	NEH90JM-476X	E.CAPACITOR	47	6.3V
C430	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C431 C432	NCB41CM-106X NCB41CM-106X	CER.CAPACITOR CER.CAPACITOR	10	16V 16V
C432	NCB41CM-106X	CER.CAPACITOR	10	16V
C434	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C501	NCB21AK-105X	CER.CAPACITOR	1 .	10V
C502	NCB21AK-105X	CER.CAPACITOR	1	10V
C503 C504	NCB31CK-223X NCB21AK-105X	CER.CAPACITOR	0.022	16V 10V
C505	NCB21AK-105X	CER.CAPACITOR	i	10V
C506	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C507	NBE21EM-474X	TAN.CAPACITOR	0.47	25V 50V
C508 C509	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V
C510	NDC31HJ-102X	CER.CAPACITOR	10000	50V
C511	NCB11AK-225X	CER.CAPACITOR	2.2	10V
C512 C513	NCB11AK-225X NCB11AK-225X	CER.CAPACITOR	2.2	10V 10V
C514	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C515	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C516 C517	NCB31CK-473X NCB31CK-473X	CER.CAPACITOR	0.047 0.047	16V 16V
C517	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C519	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C520	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C521	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C522 C523	NCB31CK-223X NCB31CK-223X	CER.CAPACITOR	0.022 0.022	16V 16V
C524	NCB10JM-335X	CER.CAPACITOR	3.3	6.3V
C525	NCB21AK-105X	CER.CAPACITOR	1	10V
C536 C537	NCB31CK-223X NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR	0.022	16V 16V
C537	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C539	NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR	0.022	16V
C540	NCB10JM-335X			6.3V
C541 C542	NCB10JM-335X NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR	3.3 0.022	6.3V 16V
C543	NEH91EM-475X	E.CAPACITOR	4.7	25V
C544	NEH91EM-475X	E.CAPACITOR	4.7	25V
C547 C548	NCB31CK-223X NEH91CM-336X	CER.CAPACITOR E.CAPACITOR	0.022	16V 16V
C548	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C550	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C551 C552	NCB31CK-223X NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR	0.022	16V 16V
C553	NDC31HJ-102X	CER.CAPACITOR	1000	.50V
C554	NDC31HJ-102X	CER.CAPACITOR	1000	50V
C555 C556	NCB31CK-223X NCB31CK-223X	CER.CAPACITOR CER.CAPACITOR	0.022	16V 16V
C557	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C558	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C559 C560	NCB31CK-104X NDC31HJ-330X	CER.CAPACITOR CER.CAPACITOR	0.1 33p	16V 50V
C561	NCB31CK-473X	CER.CAPACITOR	0.047	16V

[VIDEO I/O]

C662 NCB31CK-473X CER CAPACITOR 0.047 16V 1.108 ND.114K-220X COIL CO		NCB31CK-473X	CER CAPACITOR	0.047						
C668 NCB31CK-473X CER.CAPACITOR 0.047 16V 1109 NOL114K-220X COIL COI				1().()4.7	16V I	1107	NOI 114K-220Y	COIL	22uH	
C664 NCB31CK-473X C6R.CAPACITOR 0.047 16V 1.110 NCL114K-220X COIL CO			021110711071011	0.017	,,,,				22uH	
CERCAPACITOR COMPANDED C		NCBOICK 470V	CER CARACITOR	0.047	4007					
CERCAPACITOR CERCAPACITOR CERCAPACITOR COUL CERCAPACITOR									22uH	
C686 NCB31CK-273X C6R.CAPACITOR 0.047 16V 1.112 NQL114K-220X COIL CO						L110	NQL114K-220X		22uH	
CERCAPACITOR 0.022	C565	NDC31HJ-560X	CER.CAPACITOR	56p	50V	L111	NQL114K-220X	COIL	22uH	
C668 NCB31CK-223X C6R.CAPACITOR 0.022 16V L114 NOL114K-220X COIL	C566	NCB31CK-473X	CER.CAPACITOR	0.047	16V	L112	NQL114K-220X	COIL	22uH	
C689 NCB31CK-223X CER.CAPACITOR 0.022 16V	C567	NCB31CK-223X		0.022	16V	1114			22uH	
C650 NCB31CK-223X CER.CAPACITOR 0.002 16V C570 NCB31CK-223X COIL C671 NCB10LM-335K CER.CAPACITOR 0.002 16V C572 NCB10LM-335K CER.CAPACITOR 0.004 16V C573 NCB31CK-473X CER.CAPACITOR 0.004 16V C574 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31CK-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-473X CER.CAPACITOR 0.004 16V C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-220X C0IL C576 NCB31K-100X NCB31K-100X C576 NCB31K-100X NCB31K									22uH	
C671 NCB10H-325X C6R CAPACITOR 0.022 16V C671 NCB10H-325X C6R CAPACITOR 0.047 16V L202 NCB114K-220X COIL NCB114K-21X C6R CAPACITOR 0.047 16V L203 NCB114K-220X COIL NCB114K-247X C6R CAPACITOR 150p 50V U1 L204 NCB114K-220X COIL NC										
C672 NCB10LM-335K CER.CAPACITOR 0.047 16V 1200 10C31H-121X CER.CAPACITOR 0.047 16V 1205 10C1H-4:220X COIL 10C31H-121X CER.CAPACITOR 0.047 16V 1206 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1206 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1206 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1206 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1206 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1208 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1208 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1209 NCB114K-220X COIL 10C51H-121X CER.CAPACITOR 0.047 16V 1209 NCB114K-220X COIL 1207 N						1			22uH	
C672 NCB31Ck-473X CER.CAPACITOR 0.047 16V 1202 NOL114k-220X COIL						L201	NQL114K-220X	COIL	22uH	
CS73 NC31HJ-161X CER.CAPACITOR 150p 50V U L205 NOL114K-220X COIL NC114K-220X COIL NC23HJ-121X CER.CAPACITOR 120p 50V E L205 NOL114K-220X COIL NC114K-220X COIL NC23HJ-121X CER.CAPACITOR 0.047 16V L207 NC4114K-220X COIL NC23HJ-120X COIL NC23	C571		CER.CAPACITOR	3.3	6.3V					
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C579 NDC31HJ-190X CER.CAPACITOR 190 50V L210 NOL114K-220X COIL	C577								22uH	
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CSB2 NDC31HJ-1R0X CER.CAPACITOR 1p 50V L214 NOL114K-220X COIL	C581	NCB31HK-222X	CER.CAPACITOR	2200p	50V	L213	NQL114K-220X	COIL	22uH	
CSB3 NCB31HL-160X CER.CAPACITOR 1p 50V L218 NOL114K-220X COIL	C582	NDC31HJ-1R0X	CER.CAPACITOR	10	50V				22uH	
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C604 NDC31HJ-101X CER.CAPACITOR 100p 50V C605 NCB31CK-223X CER.CAPACITOR 0.022 16V C17 PGZ01972Z LC FILTER C606 NCB31CK-223X CER.CAPACITOR 0.022 16V LC18 PGZ01972Z LC FILTER C607 NCB31CK-104X CER.CAPACITOR C20p 50V LC19 PGZ01972Z LC FILTER C608 QDC31HJ-221 CER.CAPACITOR 220p 50V LC20 PGZ01972Z LC FILTER C609 QDX11EJ-103 CER.CAPACITOR 0.01 25V C717 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 LC22 NQR0122-001X LC FILTER LC23 NQR0369-001X LC FILTER LC24 NQR0368-001X LC FILTER NQL114K-220X COIL 22uH LC24 NQR0368-001X LC FILTER NQL114K-220X COIL 22uH LC24 NQR0368-001X LC FILTER NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER NQR0368-001X LC FILTER N	C603	NCB31CK-473X	CER.CAPACITOR	0.047	16V	LC15	PGZ01972Z	LC FILTER	1	
C605 NCB31CK-223X CER.CAPACITOR 0.022 16V LC17 PGZ01972Z LC FILTER C606 NCB31CK-223X CER.CAPACITOR 0.022 16V LC18 PGZ01972Z LC FILTER C607 NCB31CK-104X CER.CAPACITOR 0.1 16V LC19 PGZ01972Z LC FILTER C608 QDC31HJ-221 CER.CAPACITOR 220p 50V LC20 PGZ01972Z LC FILTER C609 QDX1EJ-103 CER.CAPACITOR 0.01 25V C717 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 PGZ01972Z LC FILTER C717 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 PGZ01972Z LC FILTER C718 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 NCB12-001X LC FILTER NCB12-001X LC	C604								İ	
C606										
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C608 QDC31HJ-221 CER.CAPACITOR 220p 50V CER.CAPACITOR 0.01 25V CT17 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 PGZ01972Z LC FILTER LC22 NQR0122-001X LC FILTER NQL 114K-220X COIL 22uH LC24 NQL 114K-220X COIL 22uH LC31 NQL 114K-220X COIL 22uH LC4 NQL 114K-220X COIL 22uH LC54 NQR0368-001X LC FILTER NQR0368-001X NQR0368-001X LC FILTER NQR0368-001X NQR0368-001X NQR0368-001										
C609 QDX11EJ-103 CER.CAPACITOR 0.01 25V C717 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 PGZ01972Z LC FILTER LC22 NQR0122-001X LC FILTER LC23 NQR0369-001X LC FILTER LC24 NQR0369-001X LC FILTER LC24 NQR0369-001X LC FILTER LC24 NQR0369-001X LC FILTER LC24 NQR0369-001X LC FILTER LC24 NQR0369-001X LC FILTER NQL 114K-220X COIL 22uH LC24 NQR0369-001X LC FILTER NQR0369-001X LC FILTER NQR0369-001X LC FILTER NQR0369-001X LC FILTER LA NQL 114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER										
C717 NCB11AK-225X CER.CAPACITOR 2.2 10V LC21 PGZ01972Z LC FILTER LC22 NQR0122-001X LC FILTER LC23 NQR0369-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER						LC20	PGZ01972Z	LC FILTER		
LC22 NQR0122-001X LC FILTER L1 NQL114K-220X COIL 22uH LC24 NQR0368-001X LC FILTER L2 NQL114K-220X COIL 22uH LC24 NQR0368-001X LC FILTER L3 NQL114K-220X COIL 22uH LC24 NQR0368-001X LC FILTER L4 NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER		QDX11EJ-103	CER.CAPACITOR	0.01	25V					
LC22 NQR0122-001X LC FILTER L1 NQL114K-220X COIL 22uH NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER NQR0368-001X LC FILTER	C717	NCB11AK-225X	CER.CAPACITOR	2.2	10V	LC21	PGZ01972Z	LC FILTER		
LC23 NQR0369-001X LC FILTER NQL114K-220X COIL 22uH LC24 NQR0369-001X LC FILTER NQL114K-220X COIL 22uH LC24 NQR0369-001X LC FILTER NQL114K-220X COIL 22uH NQR0369-001X LC FILTER NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER				1	1					
L1 NQL114K-220X COIL 22uH NQR0368-001X LC FILTER L2 NQL114K-220X COIL 22uH LC24 NQR0369-001X LC FILTER L3 NQL114K-220X COIL 22uH NQR0368-001X LC FILTER L4 NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER			1						1	# D
L2 NQL114K-220X COIL 22uH LC24 NQR0369-001X LC FILTER L3 NQL114K-220X COIL 22uH NQR0368-001X LC FILTER L4 NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER	1 1	NOL 114K-220V	l cou	22	1	1020				(U)
L3 NQL 114K-220X COIL 22uH NQR0368-001X LC FILTER L4 NQL 114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER					1				l l	(E)
L4 NQL114K-220X COIL 22uH LC25 PGZ01972Z LC FILTER					· 1	LC24				(4)
		NQL114K-220X	COIL	22uH			NQR0368-001X	LC FILTER		(E)
	L4	NQL114K-220X	COIL	22uH	1	LC25	PGZ01972Z	LC FILTER		
	L5	NOL 114K-220X	COIL	22uH		LC26	NOB0365-001X			
L6 NOL024J-100X COIL 10uH LC27 PGZ01972Z LC FILTER										
					1					
					1				1	
L8 NQL 114K-220X COIL 22uH LC101 PGZ01972Z LC FILTER										
L9 NQL114K-220X COIL 22uH LC102 PGZ01972Z LC FILTER					1	LC102	PGZ01972Z	LC FILTER		
L10 NQL024J-100X COIL 10uH	L10	NQL024J-100X	COIL	10uH						
LC103 PGZ01972Z LC FILTER				1		LC103	PGZ019727	LC FILTER	1	
L11 NQL024J-100X COIL 10uH LC104 PGZ01972Z LCFILTER	L11	NOL 024-1-100X	COIL	100H					1	
1						1 20104	. 52013722	LOTTEIN	1	
						I				
L13 NOL114K-220X COIL 22uH					1				M. Davies, and	
L15 NQL114K-220X COIL 22uH X1 QAX0097-001 CRYSTAL				22uH		X1	QAX0097-001	CRYSTAL	503.5kHz	(U)
L34 NQL114K-220X COIL 22uH QAX0096-001 CRYSTAL	L34	NQL114K-220X	COIL	22uH			QAX0096-001		500kHz	E)
L49 NQL024J-120X COIL 12uH X2 QAX0597-001 CRYSTAL						X2			3.579545MHz	(U)
L101 NQL 114K-220X COIL 22uH X4 QAX0598-001 CRYSTAL										
									4.433619MHz	(E)
		NQL114K-220X	COIL	22uH		X5	NAX0022-001X	CRYSTAL	14.31818MHz	(U)
		MOL COM COOK								
L102 NQL 114K-220X COIL 22uH X5 NAX0022-001X CRYSTAL L104 NQL 114K-220X COIL 22uH NAX0021-001X CRYSTAL L105 NQL 114K-220X COIL 22uH X6 QAX0341-001 CRYSTAL	L104				•				17.734475MHz 54MHz	(三)

6.16 REAR5 BOARD ASSEMBLY PARTS LIST ①7
SLK2100-05-A0B ①7

		·		1 Combal			
Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
CN7	QGA1501C2-06W	CONNECTOR	6PIN	R1	NRSA02J-0R0X	M.G.RESISTOR	0 1/10W
CN9	QGA1501C2-08W	CONNECTOR	8PIN	R2	NRSA02J-0R0X	M.G.RESISTOR	0 1/10W
CN11	QGF0508C1-24W	CONNECTOR	24PIN	R3	NRSA02J-0R0X	M.G.RESISTOR	0 1/10W
CN18	QGF0508C1-18W	CONNECTOR	18PIN	R4	NRSA02J-0R0X	M.G.RESISTOR	0 1/10W
CN19	QGA1501C2-09W	CONNECTOR	9PIN				
CN20	QGA1501C2-10W	CONNECTOR	10PIN	1 1			
CN21	QGA1501C2-07W	CONNECTOR	7PIN	J1	QNZ0097-001	DV CONNECTOR	DV IN/OUT
				1 [
TP1	NNZ0009-001X	TEST POINT	TP1-54	CN1	QGA1501F1-06	CONNECTOR	6PIN
	141420000-0017	72011 0		"			
144	001/0000 007	FEDDITE BEADS	W1 4	_{K1}	DC701602 0007	ECDDITC BEADS	K1-2
K1	SCV2662-027	FERRITE BEADS	K1-4		PGZ01693-009Z	FERRITE BEADS	K1-2
				1 1			
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				l I			

6.15 FRONT-SUB BOARD ASSEMBLY PARTS LIST 1 6 SLK2112-01-B0A(U) SLK2112-01-A0B(E)

Si	LK2112-01-A0B(16	
Symbol No.	Part No.	Part Name	Description
IC1	NJU6433FB2	I.C.(M)	JRC
IC2	BA6138F-X	I.C.(M)	ROHM
R1 R2 R3 R4 R5 R6 R7 R8 R9 R14	NRSA63D-221X NRSA63D-221X NRSA63D-221X NRSA63D-221X NRSA63D-221X NRSA63D-221X NRSA63D-154X NRSA63D-154X NRSA63D-154X NRSA63D-154X NRSA63D-221X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	220 1/16W 220 1/16W 220 1/16W 220 1/16W 220 1/16W 220 1/16W 220 1/16W 150k 1/16W 150k 1/16W 150k 1/16W 220 1/16W
R15	NRSA63D-221X	M.G.RESISTOR	220 1/16W
R16	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R17	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (E)
R18	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W (U)
C1	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C2	NCB41CM-106X	CER.CAPACITOR	10 16V
C3	NBE21CM-475X	TAN.CAPACITOR	4.7 16V
C4	NBE21CM-475X	TAN.CAPACITOR	4.7 16V
\$1	NSW0005-001X	TACT SWITCH	MENU
\$2	NSW0005-001X	TACT SWITCH	ADVANCE
\$3	NSW0005-001X	TACT SWITCH	PRESET
\$4	NSW0005-001X	TACT SWITCH	HOLD
\$5	NSW0005-001X	TACT SWITCH	SHIFT
\$6	NSW0005-001X	TACT SWITCH	A DUB
CN1	QGB2028L2-10	CONNECTOR	10PIN
CN2	QGB2028L2-10	CONNECTOR	10PIN
CN3	QGB2028L2-10	CONNECTOR	10PIN
DA1	QLL0063-002	BACK LIGHT ASSY	
DA2	QLD0102-001	L.C.D. PANEL	

6.17 TR BOARD ASSEMBLY PARTS LIST 18 SLK2101-02-A0C 18

J.	- NZ 10 1-02-A00			
Symbol No.	Part No.	Part Name	Description	
CN1	QGA1501F2-03W	CONNECTOR	ЗРІМ	

6.18 TRANSMIT BOARD ASSEMBLY PARTS LIST 19 SLK3030-A0A 11

Symbol No.	Part No.	Part Name	Description
IC1	DS90LV032ATM-X	I.C.(M)	NATIONAL SEMICO
R1 R2 R3 R4	NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-221X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 1/16W 100 1/16W 100 1/16W 220 1/16W
C1 C2 C3 C4	NCB21AK-105X NCB21AK-105X NCB31CK-223X NCB31EK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 10V 1 10V 0.022 16V 0.01 25V
LC1	PGZ01972Z	LC FILTER	
CN1	QGA1501F2-07W	CONNECTOR	7PIN
K1	SCV2662-027	FERRITE BEADS	K1-3

SECTION 7 PACKING

7.1 PACKING ASSEMBLY

